

# REGION 51

PLAN FOR THE 700 MHz  
FREQUENCY BAND



# **The REGION 51 700 MHz REGIONAL PLAN**

**BY  
THE REGION 51 700 MHz PLANNING COMMITTEE**

This document is the Regional Plan for Region 51 (Texas - East) describing how the 763-775 MHz / 793-805 MHz public safety frequencies will be allocated and implemented in the Region.

# Table of Contents

|           |  |           |
|-----------|--|-----------|
| <b>1.</b> | <b>General Information.....</b>                          | <b>11</b> |
| 1.1.      | Authority.....   | 11        |
| 1.2.      | Preamble.....  | 11        |
| 1.3.      | Current Regional Chair.....                              | 12        |
| 1.4.      | Other Current RPC Officers and Full RPC Membership ..... | 12        |
| 1.5.      | Region 51 Description .....                              | 13        |
| 1.5.1.    | Map of the Region.....                                   | 13        |
| 1.5.2.    | List of Counties.....                                    | 14        |
| 1.5.3.    | General Counties Profile Data .....                      | 15        |
| 1.5.4.    | State Profile .....                                      | 16        |
| 1.5.5.    | Texas Councils of Government (COG).....                  | 17        |
| 1.5.6.    | Region 51 Federal and State Public Safety Agencies.....  | 18        |
| 1.5.7.    | Houston Urban Area .....                                 | 19        |
| <b>2.</b> | <b>Notification and Operation.....</b>                   | <b>22</b> |
| 2.1.      | Notification Process .....                               | 22        |
| 2.1.1.    | Meeting Announcements .....                              | 22        |
| 2.1.2.    | Comment Solicitation .....                               | 22        |
| 2.1.3.    | Copies of Notices, Comments, and Submissions.....        | 22        |
| 2.1.4.    | Description of Comment Consideration .....               | 22        |
| 2.2.      | Operations of the Regional Plan Committee .....          | 22        |
| 2.3.      | Major Elements of the Plan .....                         | 24        |

|           |   |           |
|-----------|---|-----------|
| <b>3.</b> | <b>Regional Plan Administration .....</b>             | <b>25</b> |
| 3.1.      | Procedure for Requesting Spectrum Allotments .....    | 25        |
| 3.2.      | Procedure for Frequency Coordination .....            | 30        |
| 3.3.      | Allocation of Narrowband “General Use” Spectrum. .... | 31        |
| 3.4.      | Low Power Analog Eligible Channels. ....              | 31        |
| 3.5.      | Dispute Resolution – Intra-Regional .....             | 33        |
| <b>4.</b> | <b>Priority Matrix .....</b>                          | <b>35</b> |
| 4.1.      | Allocation Requests Conflict .....                    | 35        |
| 4.2.      | More Applicants than Frequencies .....                | 37        |
| 4.3.      | Process Treated as Dispute .....                      | 37        |
| <b>5.</b> | <b>Process for Handling Unformed Regions .....</b>    | <b>38</b> |
| 5.1.      | Adjacent Regions .....                                | 38        |
| <b>6.</b> | <b>Coordination with Adjacent Regions .....</b>       | <b>39</b> |
| 6.1.      | Adjacent Regions .....                                | 39        |
| 6.2.      | Notification .....                                    | 40        |
| 6.3.      | Copies of Plan .....                                  | 40        |
| 6.4.      | Use of CAPRAD .....                                   | 40        |
| 6.5.      | Resolve Intra-Regional Requests .....                 | 40        |
| <b>7.</b> | <b>System Design/ Efficiency Requirements.....</b>    | <b>42</b> |
| 7.1.      | Interference Protection.....                          | 42        |
| 7.2.      | Spectrum Efficiency Standards .....                   | 42        |
| 7.3.      | Orphaned Channels.....                                | 43        |
| 7.4.      | System Implementation.....                            | 44        |



|       |   |           |
|-------|---|-----------|
| 7.5.  | Channel Loading.....                            | 44        |
| 8.    | <b>Interoperability Channels.....</b>           | <b>46</b> |
| 8.1.  | Introduction .....                              | 46        |
| 8.2.  | Tactical Channels .....                         | 46        |
| 8.3.  | Deployable Systems .....                        | 46        |
| 8.4.  | Monitoring of Calling Channels .....            | 46        |
| 8.5.  | Incident Command System Standard .....          | 46        |
| 9.    | <b>Future Planning .....</b>                    | <b>47</b> |
| 9.1.  | Database Maintenance. ....                      | 47        |
| 9.2.  | Inter-Regional Dispute Resolution Process. .... | 47        |
| 9.3.  | Amendment Process. ....                         | 47        |
| 9.4.  | Meeting Announcements. ....                     | 47        |
| 10.   | <b>Certification.....</b>                       | <b>48</b> |
| 11.   | <b>Bylaws .....</b>                             | <b>49</b> |
| 11.1. | Name and Purpose .....                          | 49        |
| 11.2. | Region 51 Includes the Texas Counties .....     | 49        |
| 11.3. | Members .....                                   | 49        |
| 11.4. | Numbers, Election and Qualifications .....      | 49        |
| 11.5. | Voting Members .....                            | 49        |
| 11.6. | Non-Voting Members.....                         | 50        |
| 11.7. | Dual Membership.....                            | 50        |
| 11.8. | Tenure.....                                     | 50        |
| 11.9. | Power and Rights .....                          | 50        |

|        |  |     |
|--------|--|-----|
| 11.10. | Suspensions and Removal .....                        | 50  |
| 11.11. | Resignation .....                                    | 51  |
| 11.12. | Meetings .....                                       | 51  |
| 11.13. | Special Meetings.....                                | 51  |
| 11.14. | Call and Notice.....                                 | 52  |
| 11.15. | Quorum.....  | 52  |
| 11.16. | Action by Vote.....                                  | 52  |
| 11.17. | Action by Writing .....                              | 53  |
| 11.18. | Proxies.....   | 53  |
| 11.19. | Special Interest Voting .....                        | 53  |
| 11.20. | Officers and Agents.....                             | 53  |
| 11.21. | Amendments .....                                     | 55  |
| 11.22. | Dissolution .....                                    | 55  |
| 11.23. | Rules of Procedures .....                            | 56  |
| 12.    | Region 51 Members, Agencies, etc.....                | 57  |
| 13.    | List of Meetings, Summaries of Minutes, Agendas..... | 67  |
| 13.1.  | 1st Meeting November 8, 2000.....                    | 67  |
| 13.2.  | 2nd Meeting May 29, 2003 .....                       | 84  |
| 13.3.  | 3rd Meeting June 3, 2004 .....                       | 94  |
| 13.4.  | 4th Meeting August 5, 2004.....                      | 101 |
| 13.5.  | 5th Meeting February 15, 2006.....                   | 108 |
| 13.6.  | 6th Meeting April 4, 2006.....                       | 116 |
| 13.7.  | 7th Meeting May 24, 2006 .....                       | 122 |

|         |   |     |
|---------|---|-----|
| 13.8.   | 8th Meeting July 19, 2006 .....                               | 130 |
| 13.9.   | 9th Meeting August 30, 2006 .....                             | 138 |
| 13.10.  | 10th Meeting October 18, 2006 .....                           | 145 |
| 13.11.  | 11th Meeting December 6, 2006 .....                           | 153 |
| 13.12.  | 12th Meeting January 30 <sup>th</sup> , 2007 .....            | 162 |
| 13.13.  | 13th Meeting March 28 <sup>th</sup> , 2007 .....              | 171 |
| 13.14.  | 14 <sup>th</sup> Meeting April 25 <sup>th</sup> , 2007 .....  | 181 |
| 13.15.  | 15 <sup>th</sup> Meeting October 3 <sup>rd</sup> , 2007 ..... | 193 |
| 14.     | 700 MHz Interoperability/Channel Nomenclature .....           | 204 |
| 15.     | NCC 700 MHz Pre-Assignment Rules/Recommendations              | 205 |
| 15.1.   | Introduction .....  | 205 |
| 15.2.   | Overview .....  | 205 |
| 15.3.   | Discussion .....  | 206 |
| 15.4.   | Portable In-Building Coverage .....                           | 206 |
| 15.5.   | Service Contour Extension Recommendation .....                | 207 |
| 15.6.   | Interfering Contour .....                                     | 207 |
| 15.7.   | Co-Channel Interfering Contour Recommendation .....           | 207 |
| 15.8.   | Adjacent and Alternate Channel Considerations .....           | 208 |
| 15.9.   | Adjacent Channel Interfering Contour Recommendation .....     | 208 |
| 15.10.  | Final Detailed Coordination .....                             | 208 |
| 16.     | Region 51 Channel Assignments .....                           | 210 |
| 16.1.   | 700 MHz Channel Assignments for Region 51 .....               | 210 |
| 16.1.1. | Methodology .....   | 210 |

|          |  |     |
|----------|--|-----|
| 16.1.2.  | Channel Spacing .....                    | 211 |
| 16.1.3.  | Edits to Frequency Assignments .....     | 211 |
| 16.1.4.  | County Assignments .....                 | 212 |
| 16.1.5.  | Coordination with Adjacent Regions ..... | 212 |
| 16.1.6.  | Harris County-1 .....                    | 214 |
| 16.1.7.  | Harris County-2 .....                    | 215 |
| 16.1.8.  | Harris County-3 .....                    | 216 |
| 16.1.9.  | Harris County-4 .....                    | 217 |
| 16.1.10. | Harris County-5 .....                    | 218 |
| 16.1.11. | Harris County-6 .....                    | 219 |
| 16.1.12. | Harris County-7 .....                    | 220 |
| 16.1.13. | Fort Bend County .....                   | 221 |
| 16.1.14. | Galveston County .....                   | 222 |
| 16.1.15. | Montgomery County .....                  | 223 |
| 16.1.16. | Brazoria County .....                    | 224 |
| 16.1.17. | Austin County .....                      | 224 |
| 16.1.18. | Colorado County .....                    | 225 |
| 16.1.19. | Liberty County .....                     | 225 |
| 16.1.20. | Matagorda County .....                   | 225 |
| 16.1.21. | Waller County .....                      | 226 |
| 16.1.22. | Wharton County .....                     | 226 |
| 16.1.23. | Jefferson County .....                   | 227 |

|              |   |            |
|--------------|---|------------|
| 16.1.24.     | Chambers County.....                                    | 228        |
| 16.1.25.     | Angelina County .....                                   | 228        |
| 16.1.26.     | Hardin County.....                                      | 229        |
| 16.1.27.     | Houston County.....                                     | 229        |
| 16.1.28.     | Jasper County .....                                     | 230        |
| 16.1.29.     | Nacogdoches.....  | 231        |
| 16.1.30.     | Newton .....  | 232        |
| 16.1.31.     | Polk County .....                                       | 232        |
| 16.1.32.     | Sabine County .....                                     | 233        |
| 16.1.33.     | San Augustine County .....                              | 233        |
| 16.1.34.     | San Jacinto County .....                                | 234        |
| 16.1.35.     | Shelby County .....                                     | 234        |
| 16.1.36.     | Trinity County .....                                    | 235        |
| 16.1.37.     | Tyler County .....                                      | 235        |
| 16.1.38.     | Orange County .....                                     | 236        |
| 16.1.39.     | Walker County .....                                     | 237        |
| <b>16.2.</b> | <b>FCC Rules Sec. 90.531 Band Plan.....</b>             | <b>238</b> |
| <b>17.</b>   | <b>Inter-Regional Dispute Resolution Agreement.....</b> | <b>242</b> |
| <b>17.1.</b> | <b>Region 18.....</b>                                   | <b>242</b> |
| <b>17.2.</b> | <b>Region 40.....</b>                                   | <b>246</b> |
| <b>17.3.</b> | <b>Region 49.....</b>                                   | <b>250</b> |
| <b>17.4.</b> | <b>Region 53.....</b>                                   | <b>254</b> |



|            |  |            |
|------------|--|------------|
| <b>18.</b> | <b>Adjacent Regions Concurrences.....</b>                      | <b>258</b> |
| 18.1.      | Region 18.....   | 258        |
| 18.2.      | Region 40.....   | 260        |
| 18.3.      | Region 49.....   | 262        |
| 18.4.      | Region 53.....   | 264        |
| <b>19.</b> | <b>DTV Protection and Incumbency.....</b>                      | <b>266</b> |
| 19.1.      | FCC Rules 90.545 TV/DTV Interference Protection Criteria. .... | 267        |
| <b>20.</b> | <b>Meeting Procedures .....</b>                                | <b>271</b> |
| 20.1.      | Parliamentary Courtesies .....                                 | 272        |
| 20.2.      | Reminders for the Presiding Officer.....                       | 273        |
| 20.3.      | Order of Business .....  | 273        |
| 20.4.      | Agenda .....   | 273        |
| 20.5.      | How to Present and Dispose of a Motion .....                   | 274        |
| 20.6.      | Classification of Motions .....                                | 277        |
| 20.7.      | Minutes .....  | 278        |
| 20.8.      | Treasurer’s Report .....                                       | 280        |
| 20.9.      | Elections of Officers .....                                    | 280        |
| 20.10.     | Conclusions .....  | 283        |
| 20.11.     | Parliamentary Terms to Know .....                              | 284        |
| 20.12.     | Copyright Notice .....   | 285        |

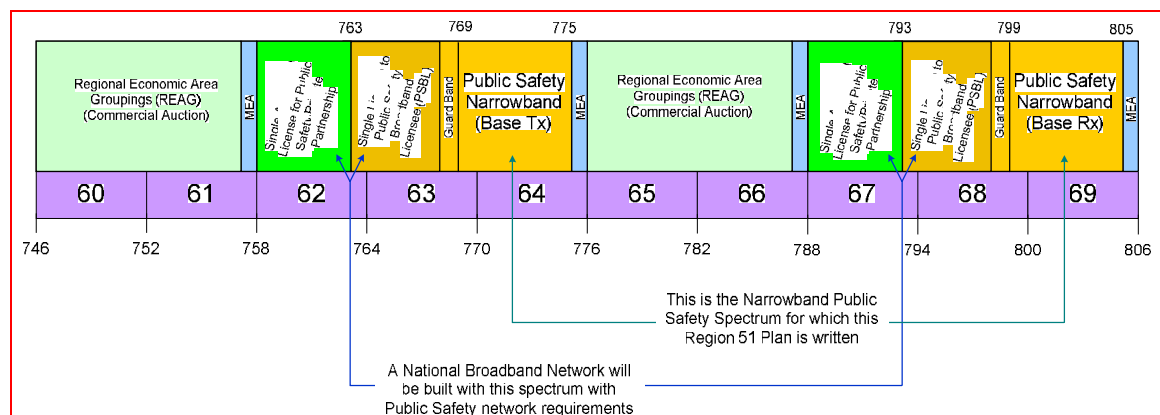
# 1. General Information

## 1.1. Authority

The Region 51 700 MHz Planning Committee is established under section 90.527 of the FCC's rules and regulations.

## 1.2. Preamble

1.2.1. In order to help alleviate major wireless radio congestion, the Federal Communication Commission (FCC) released 60 MHz of television broadcast spectrum – channels 60-69 (746-806 MHz) for use by land mobile radios. In addition to alleviating the congestion for wireless radio systems, the FCC also hoped to provide public safety access to new technologies that may require additional use of bandwidth, and promote interoperability. Additionally, a widespread movement within public safety communications calling for broadband systems capability prompted the FCC to reallocate the new spectrum. To accomplish these goals, the FCC allocated this spectrum as follows:



1.2.2. The Public Safety spectrum consists of TV broadcast channel 63 & 64 paired with channels 68 & 69. The Regional Planning Committee (RPC) is tasked with the administration and management of this plan which deals with the 12 MHz of Narrow Band spectrum for Public Safety.

1.2.3. Public Safety users will also have priority access to a National Broadband Network which will be constructed with Public Safety grade network requirements. The spectrum for this National Broadband Network will be divided between a single auctioned licensee, and the Public Safety Broadband Licensee (PSBL).

### **1.3. Current Regional Chair**

The Regional Chairperson is Doug Frankhouser. Contact information is:

Doug Frankhouser  
Houston Airport System  
16930 JFK Blvd.  
Houston, TX 77032  
281.233.1344  
douglas.frankhouser@cityofhouston.net

### **1.4. Other Current RPC Officers and Full RPC Membership**

The Vice Chairperson of Region 51 is Craig Bernard. Contact information is:

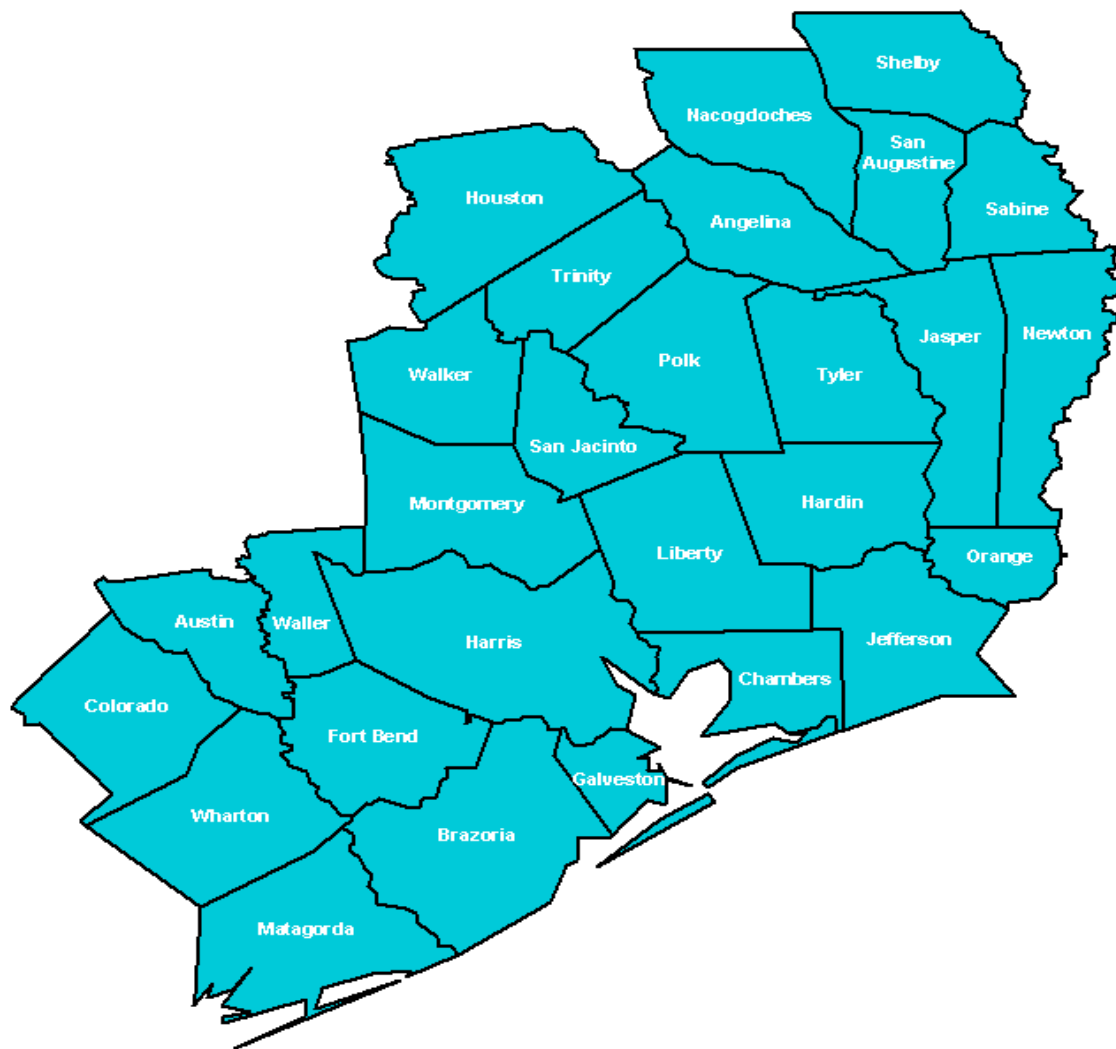
Craig Bernard  
Harris County ITC  
2500 Texas Ave.  
Houston, TX 77003  
713.755.5998  
Craig.bernard@itc.hctx.net

The Regional Chairperson's assistant or the Vice Chairperson's assistant may act as the Secretary for Region 51; currently there is not a position of Treasurer.

Membership in the Region 51 Regional Planning Committee is open to any interested party as defined by FCC Part 90.523. Committee Officer requirements, voting procedures and membership attendance requirements are listed in the Region 51 Planning Committee By-Laws. Section 11 contains the Region 51 By-laws. Section 12 is a list of Region 51's members, their agency/affiliation and voting status.

## 1.5. Region 51 Description

### 1.5.1. Map of the Region



### 1.5.2. List of Counties

Region 51 consists of 28 counties:

Angelina, Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Hardin, Harris, Houston, Jasper, Jefferson, Liberty, Matagorda, Montgomery, Nacogdoches, Newton, Orange, Polk, Sabine, San Augustine, San Jacinto, Shelby, Trinity, Tyler, Walker, Waller, Wharton.

Harris is the largest by population; San Augustine is the smallest. Five core counties make up the UASI (Urban Area Security Initiative) Region; Brazoria, Fort Bend, Galveston, Harris, and Montgomery. The UASI Region contains 82.52% of the total Region 51 population; Region 51 contains 26.24% of the total population of the State of Texas (U.S. Census 2005).



### 1.5.3. General Counties Profile Data

| County        | U.S. Census<br>2005 Population                       | UASI Core<br>Counties *                                |   |   |   |
|---------------|--|--|---|---|---|
| Angelina      | 81,557   |  |   |   |   |
| Austin        | 26,123   |  |   |   |   |
| Brazoria *    | 278,484  | 278,484  |   |   |   |
| Chambers      | 28,411   |  |   |   |   |
| Colorado      | 20,736   |  |   |   |   |
| Fort Bend *   | 463,650  | 463,650  |   |   |   |
| Galveston *   | 277,563  | 277,563  |   |   |   |
| Hardin        | 50,976   |  |   |   |   |
| Harris *      | 3,693,050  | 3,693,050  |   |   |   |
| Houston       | 23,218   |  |   |   |   |
| Jasper        | 35,587   |  |   |   |   |
| Jefferson     | 247,571  |  |   |   |   |
| Liberty       | 75,141   |  |   |   |   |
| Matagorda     | 37,849   |  |   |   |   |
| Montgomery *  | 378,033  | 378,033  |   |   |   |
| Nacogdoches   | 60,468   |  |   |   |   |
| Newton        | 14,309   |  |   |   |   |
| Orange        | 84,983   |  |   |   |   |
| Polk          | 46,640   |  |   |   |   |
| Sabine        | 10,416   |  |   |   |   |
| San Augustine | 8,907  |  |   |   |   |
| San Jacinto   | 24,801   |  |   |   |   |
| Shelby        | 26,346   |  |   |   |   |
| Trinity       | 14,363   |  |   |   |   |
| Tyler         | 20,617   |  |   |   |   |
| Walker        | 62,735   |  |   |   |   |
| Waller        | 34,821   |  |   |   |   |
| Wharton       | 41,554   |  |   |   |   |
|               |  |  |   |   |   |
|               | <b>Total 2005<br/>Population for 28<br/>Counties</b> | <b>Total 2005<br/>Population for<br/>Core Counties</b> | <b>Total 2005 State<br/>of Texas<br/>Population</b> | <b>Region 51 % of<br/>Total State of<br/>Texas<br/>Population</b> | <b>Core Counties %<br/>of Region 51</b> |
|               | <b>6,168,909</b>                                     | <b>5,090,780</b>                                       | <b>23,507,783</b>                                   | <b>26.24%</b>   | <b>82.52%</b>                           |

#### 1.5.4. State Profile

##### U.S. Census Bureau 2005 American Community Survey Data Profile

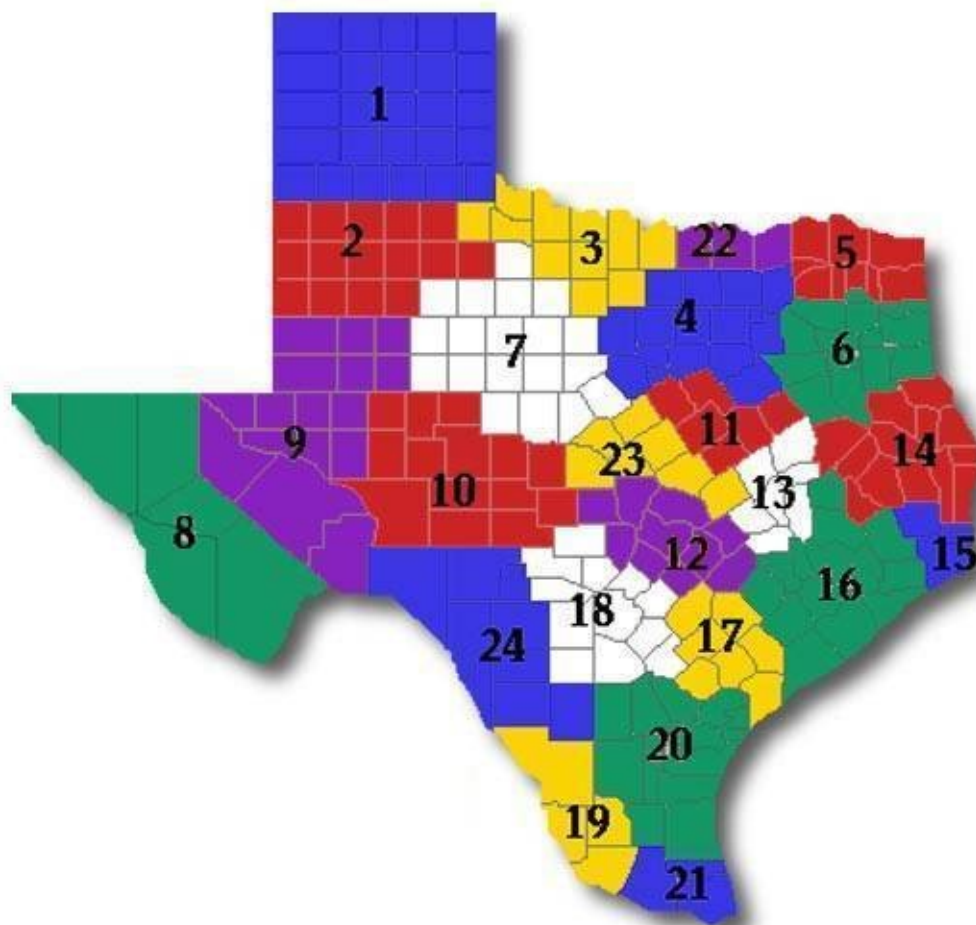
##### Highlights:

[http://factfinder.census.gov/servlet/ACSSAFFacts?\\_event=&geo\\_id=04000US48&\\_geoContext=01000US%7C04000US48&\\_street=&\\_county=&\\_cityTown=&\\_state=04000US48&\\_zip=&\\_lang=en&\\_sse=on&ActiveGeoDiv=geoSelect&\\_useEV=&pctxt=fph&pgsl=040&\\_submenuId=factsheet\\_1&ds\\_name=null&ci\\_nbr=null&qname=null&reg=null%3Anull&\\_keyword=&\\_industry=](http://factfinder.census.gov/servlet/ACSSAFFacts?_event=&geo_id=04000US48&_geoContext=01000US%7C04000US48&_street=&_county=&_cityTown=&_state=04000US48&_zip=&_lang=en&_sse=on&ActiveGeoDiv=geoSelect&_useEV=&pctxt=fph&pgsl=040&_submenuId=factsheet_1&ds_name=null&ci_nbr=null&qname=null&reg=null%3Anull&_keyword=&_industry=)

##### U.S. Census Bureau 2005 Economic Fact Sheet:

[http://factfinder.census.gov/servlet/SAFFEconFacts?\\_event=Search&geo\\_id=01000US&\\_geoContext=01000US&\\_street=&\\_county=&\\_cityTown=&\\_state=04000US48&\\_zip=&\\_lang=en&\\_sse=on&ActiveGeoDiv=geoSelect&\\_useEV=&pctxt=bq&pgsl=010&\\_submenuId=business\\_0&ds\\_name=ECN\\_2002\\_SAFF&ci\\_nbr=&qname=&reg=%3A&\\_keyword=&\\_industry=](http://factfinder.census.gov/servlet/SAFFEconFacts?_event=Search&geo_id=01000US&_geoContext=01000US&_street=&_county=&_cityTown=&_state=04000US48&_zip=&_lang=en&_sse=on&ActiveGeoDiv=geoSelect&_useEV=&pctxt=bq&pgsl=010&_submenuId=business_0&ds_name=ECN_2002_SAFF&ci_nbr=&qname=&reg=%3A&_keyword=&_industry=)

### 1.5.5. Texas Councils of Government (COG)



Region 51 includes three (3) COG's within its boundary: **14, 15, & 16**

#### 1. Gulf Coast State Planning Region 16 – Houston-Galveston Area Council

**Established:** September 1966  
**Area:** 12,444 sq. miles  
**Population:** 5,418,150 (U.S. Census 2005 est.)  
**Counties Served:** Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Harris, Liberty, Matagorda, Montgomery, Walker, Waller, Wharton

#### 2. State Planning Region 15 – South East Regional Planning Commission

**Established:** June 1970  
**Area:** 2,196 sq. miles  
**Population:** 383,530 (U.S. Census 2005 est.)  
**Counties Served:** Hardin, Jefferson, Orange

### **3. Deep East Texas State Planning Region 14 – Deep East Texas Council**

**Established:** 1967

**Area:** 9,906 sq. miles

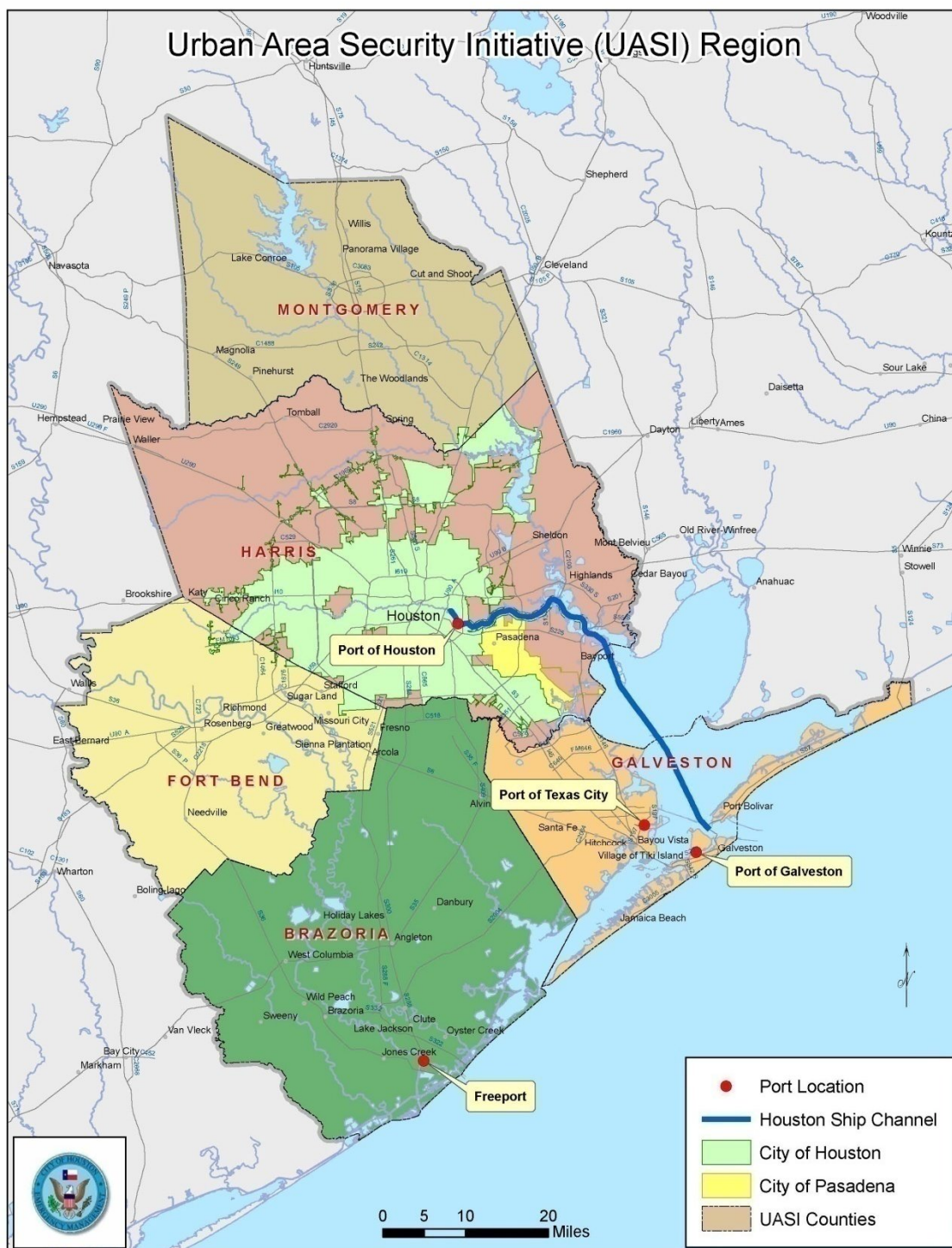
**Population:** 331,642 (U.S. Census 2005 est.)

**Counties Served:** Angelina, Houston, Jasper, Nacogdoches, Newton, Polk, Sabine, San Augustine, San Jacinto, Shelby, Trinity, Tyler

#### **1.5.6. Region 51 Federal and State Public Safety Agencies**

- **Federal Law Enforcement Agencies**
  - Federal Bureau of Investigation
  - Drug Enforcement Administration
  - U.S. Citizenship and Immigration Services
  - Bureau of Alcohol, Tobacco, Firearms, Explosives
  - U.S. Customs and Border Protection
  - U.S. Secret Service
  - U. S. Coast Guard
  - Ellington Air Force Base
- **State Agencies With Enforcement Responsibility**
  - Department of Public Safety
  - Texas Alcoholic Beverage Commission
  - Texas Forest Service
  - Texas Parks and Wildlife
  - Texas Department of Transportation

### 1.5.7. Houston Urban Area



The Houston Urban Area is comprised of many jurisdictions including The City of Houston, Harris County, Montgomery County, Fort Bend County, Brazoria County,



Galveston Counties, the Port of Houston Authority, the Metropolitan Transit Authority of Harris County and the City of Pasadena

The five counties that comprised the Houston Urban Area span more than 5,000 square miles of mostly flat terrain with a combined population of over 5 million residents. More than 38% of these residents (just under two million) reside within the corporate limits of the City of Houston, approximately 620-square mile urban area that is the fourth largest city in the nation, situated almost entirely within the nation's third largest county, Harris County.

As one of the nation's largest urban centers, Houston has a number of vulnerabilities in common with other metropolitan areas. These include critical infrastructures like roads and bridges, water supply, banking and commercial centers, educational, religious and cultural facilities and government and public safety operations.

Under the old FBI threat assessment matrix, Houston was often cited as the only city in the US with vulnerabilities in all nine threat areas. It is the presence of typical urban infrastructures as outlined above, combined with the city's unique assets, making the Houston Urban Area particularly vulnerable and therefore requiring interoperable communications and adequate radio spectrum.

Unique assets within the Houston Urban Area include:

- The Port of Houston, one of the nation's largest deep water ports, is linked to the Gulf of Mexico by the 50-mile Houston Ship Channel. Of the US ports, the Port of Houston ranks first in foreign tonnage, with public and private maritime terminals that annually generate \$11 billion in revenue.
- The Houston Urban Area has the largest petrochemical complex in the US and one of the largest in the world, refining 2.2 million barrels of oil each day and generating 1/8 of the nation's capacity.
- Fourteen of the nation's top 20 natural gas transmission companies have corporate or divisional headquarters in Houston, controlling two-thirds of the US capacity, as do 11 of the nation's top 20 petroleum pipelines, controlling one third of US capacity.
- The largest medical center in the world comprised of 42 member organizations and world-renowned hospitals that serve an international constituency.
- NASA's Johnson Space Center, which serves as mission control for shuttle flights and the International Space Station operations.
- Houston is a cultural and entertainment center for the region. The area has resident companies in every major art discipline.
- Houston also has professional teams in every major sport, with new venues online or opening in the next year for each sport.
- Houston's international prominence has led its selection as the host city for major sporting events, including the NFL Super Bowl, MLB All-Star Game, NBA All-Star Game, and the NCAA Final Four.

Houston's location on the Gulf Coast makes the threat of severe weather and tropical storms very real. In 2001, Tropical Storm Allison's 36 inches of rain resulted in 22 deaths and \$5 billion in damages.

Tornadoes are reported in Texas more often than in any other state, and Harris County is the state's tornado capital, with 173 reported tornadoes in the county in the 50 year period between 1950 and 1999.

The City of Houston and all five counties that comprise the Houston Urban Area are geographically located in the 13-county Houston-Galveston Area Council (H-GAC) region. H-GAC is one of 24 councils of government (COGs) that are voluntary associations of local governments formed under Texas law. The COGs address issues that cross individual jurisdictional boundaries necessitating regional attention such as homeland security, cooperative purchasing, economic development, air quality and transportation.

## **2. Notification and Operation**

### **2.1. Notification Process**

#### **2.1.1. Meeting Announcements**

The 1st meeting of the Region 51 700 Public Safety Planning Committee was announced 60 days ahead of the November 8, 2000 meeting. The meeting notice was advertised in Texas Fire Chief Magazine, APCO's Public Safety Communications magazine, the Houston Chronicle newspaper, the Lufkin Daily News newspaper, and the FCC's website.

Subsequent meeting notices were posted on the FCC's website and sent to all previous meeting attendees via email.

#### **2.1.2. Comment Solicitation**

In each of the announcements, invitees were encouraged to provide input into the planning process. During the meetings, participants were encouraged to comment on a previous meeting's items and the current agenda's items. Comments were given at the time of meetings, provided ahead of meeting times on the website, and made directly to the chairman and vice-chairman. The chairman stated that the Plan should represent all jurisdictions in Region 51 and that all representatives are encouraged to provide the input necessary to make an effective Plan.

#### **2.1.3. Copies of Notices, Comments, and Submissions**

See Appendices.

#### **2.1.4. Description of Comment Consideration**

Comments, issues, concerns, and recommendations raised during the meetings are discussed fully by the attendees. As appropriate, Simple Parliamentary Procedures are used to approve any requisite action required as a result of this process.

### **2.2. Operations of the Regional Plan Committee**

- 2.2.1. The Region 51 700 MHz Committee has not begun the process for opening a filing window to take requests for radio spectrum. Discussion and meetings regarding 700 MHz spectrum have been well attended by the public safety agencies within Region 51. High population densities and current scarce spectrum resources indicate a majority of requests for 700 MHz spectrum will be from the Greater Houston Metropolitan Area.

Several areas within Region 51 may request 700 MHz channels to expand and accommodate growth of existing 800 MHz systems.

- 2.2.2. This committee will use Simplified Parliamentary Procedures to conduct meetings. This method allows for all members to have their voice heard. All decisions will be by clear consensus vote with each Public Safety Agency in attendance having one (1) vote. Additional voting member considerations are listed in the Region 51 Bylaws, Section 11. The meetings are open to all interested persons and public input time is provided for anyone to express a viewpoint or to have input to the Regional Planning process.
- 2.2.3. Subcommittees may be formed as needed to work on specific issues, and dissolved when work is complete and recommendations made to the full Regional Planning Committee (RPC). Subcommittees are intended to work on the details of specific issues and make recommendations to the full committee for the development of the Region 51 Regional Plan. Any changes to the Regional Plan must be voted and approved by the full RPC. Participation in subcommittees is open to any member. The Chair of the RPC appoints each Subcommittee Chair as needed. Region 51 has one standing subcommittee for Interoperability.
- 2.2.4. A minimum of one (1) full committee meeting will be held per year. The Region 51 Chairperson has the authority to call an additional meeting at a time when he/she deems necessary or when he/she deems it in the best interest of the Region to convene. In an attempt to offer as many people as possible the opportunity to contribute to the Regional 700 MHz Planning Committee, a central location was chosen to host the meeting.
- 2.2.5. The original Region 51 website was created in 2000. The new Region 51 website was created in 2006. The website is used to disseminate information to those interested as well as dates and time of sub-committee and full committee meetings. The website URL is <http://www.region51.hctx.net>.
- 2.2.6. Beginning two years after Federal Communications Commission's approval of this Regional Plan, the Chairperson shall call a meeting of the Regional Planning Committee to elect a Chair, Vice Chair and Secretary to serve for a two-year term. There is no limit to the number of terms that may be served by officers of the 700 MHz Regional Planning Committee.
- 2.2.7. If the Chair is unable to serve a complete term, the Vice Chair will serve as Chair until the next 700 MHz Regional meeting. If both the Chair and Vice Chair are unable to serve their full terms, one or the other should make an effort to call a special meeting of the Committee to elect replacements. If for some reason, neither the Chair nor the Vice Chair can call the special meeting; the State or any County within the Region may

call for a special meeting, giving at least 5 days notice, to elect replacements.

- 2.2.8. A chronological list of meetings, attendees, and meeting summaries outlining Region 51's progress in 700 MHz developments is located in Section 13 of this document.

## **2.3. Major Elements of the Plan**

- 2.3.1. The major elements of this Plan follow the National Coordination Committee (NCC) guidelines. Region 51 would like to express its "Thanks" to the NCC for their work on these guidelines. Without the guidelines, the Plan development would have been much more difficult. Region 51 would also like to thank the National Law Enforcement and Correctional Technology Center (NLECTC) for its development and support of the Computer Assisted Pre-coordination Resource And Database System (CAPRAD) and the staff that supports this system. The funding, training and support from NLECTC, Rocky Mountain Region and the CAPRAD personnel as well as the Regional Planning Colloquiums were invaluable to the development of this Plan.

- 2.3.2. The major elements of this Plan are:

- The declaration that this is the Region 51 Plan
- That Region 51 encompasses 28 Counties in the State of Texas
- The administration and operation of the committee
- 700 MHz interoperability
- General Use spectrum management
- Allocation request processing
- Dispute resolution
- Adjacent Region coordination and
- The appendices with the channel allocation being Section 16. The channel allocation contains the both the general usage voice and wideband data channels.



## 3. Regional Plan Administration

### 3.1. Procedure for Requesting Spectrum Allotments

#### 3.1.1. General Information.

Upon FCC approval of this Plan, Region 51 will announce to the Region that 700 MHz public safety channels are available in the Region and that channels have been assigned in pool allotments to counties within the Region for usage by Public Safety entities. The general usage spectrum may be used by all Local government entities and State agencies only if the State Channels have been depleted or not available in that county. The Wide Band Data Channels are available to both local and state government on a first come first serve basis.

- All available methods will be used to notify public safety entities of channel availability in the Region. All spectrum requests will be considered on a first come, first served basis. Region 51 supports the National Coordination Committee Pre-Assignment Rules and Recommendations listed in Section 15, and will use these guidelines as a template to determine if an application submitted to the Regional Planning Committee meets Regional Planning standards. It is recommended that applicants familiarize themselves with these recommendations prior to submitting applications for Region 51 700 MHz public safety system implementation. Region 51 may develop a supplemental form for applicants to submit, along with their FCC form, to help guide them through the application process.
- In general and unless otherwise noted, the Region 51 Regional Planning Committee will adhere to the published National Coordination Committee Implementation Guidelines for 700 MHz Public Safety Regional Planning Committees.

#### 3.1.2. Spectrum Re-Usage.

Region 51 utilized the CAPRAD pre-coordination database system to maximize channel re-usage in the 700 MHz band. Since the spectrum is reused, it is hoped that each system will use the minimum power necessary to meet their needs. If power and ERP seems excessive to the committee, a reduction in power or antenna gain may be requested to minimize interference and increase spectrum efficiency to other co-channel and adjacent channel users.

#### 3.1.3. Application Submission.

To request channels from Region 51, a full application package must be submitted to the NLECTC - Sponsored CAPRAD database at:

- The application **must** include:
  - 3.1.3..1. The current FCC Form (currently the 601),
  - 3.1.3..2. A short description of the proposed system,
  - 3.1.3..3. A justification for the additional spectrum,
  - 3.1.3..4. An coverage prediction map using the current version of TIA/EIA TSB 88 guidelines,
  - 3.1.3..5. Maps showing all interference predicted in the proposed system,
  - 3.1.3..6. Documents indicating agency-funding commitments sufficient to fund the development of the proposed system(s),
  - 3.1.3..7. A list of 'give-back' channels, if applicable
  - 3.1.3..8. The Region 51 supplemental form.
- 3.1.4. Exceptions in accepting applications from qualified applicants will be made by the Region if applicants have demonstrated a need for 700 MHz channels and cannot access the CAPRAD database.
- 3.1.5. **Application Distribution / Coordination.** The Chair will distribute the application request to all other necessary agencies with allotments in the Plan for review and approval.
  - Absent a protest, the Regional Planning Committee will approve the application and (if applicable), submit it, through the CAPRAD database, to the applicant's preferred FCC-certified frequency coordinator for processing. This process meets the requirements of FCC Rule 90.176 (c).
  - The CAPRAD database will reflect the approved application and place the channels for the proposed system in "pre-license" status.
- 3.1.6. **Give Up or Give Back Spectrum.** When applying for new 700 MHz channels, the Regional Planning Committee encourages applicants to relinquish some amount of currently licensed spectrum ("give back channels") and make that spectrum again available for use within the Region.
  - Agencies with existing licensed 800 MHz systems that are requesting 700 MHz channels for system expansion will not fall under this requirement.

- An agency may retain channels that are used for paging, telemetry, microwave or other functions that the 700 MHz spectrum does not meet the agency's need.
- When an applicant submits a request for 700 MHz spectrum, a "Give Back Plan" should accompany the application (if applicable). This Plan should show what frequencies would be vacated, a time line for the transition, and what channels are being retained. If an existing channel is being retained for interoperability purposes, please identify that channel in the "Give Back Plan".
- Frequency "give back" requirements shall hold true for regional systems where system constituents maintain discrete licenses for their own internal operations. In this case, constituent political subdivisions or agencies are required to participate in the "give back" plan. Should a political subdivision or agency act as host of a regional system, both the host agency and the constituent agencies should participate in the "give back" plan.
- A licensed entity may not "farm down" frequencies to other services within their political structure unless justified to the RPC. If justified, the action must then approved by the RPC.
- A licensed entity may not "give" or "assign" frequencies to another entity; the frequencies must be returned to the "pool" and applied for through the normal application process.
- Frequencies used for non-voice critical infrastructure support functions [Supervisory Control and Data Acquisition (SCADA) systems] as well as frequencies that are used for interoperability with other regional, state or national agencies that rely on one certain frequency band for emergency operations. Frequencies used by an applicant for such purposes, as well as the specific use and a network/ system diagram, must be specified in supportive documentation supplied with the application to enable the Regional Planning Committee to consider any possible exemption.
- In cases of hardship or failure to implement, the Regional Planning Committee will consider, on a case-by-case basis, extensions not to exceed five years from date of license issuance, of the "give back" timetable. The dispute arbitration process in Section 3.6 of this document shall apply should there be protest.

#### 3.1.7. **Allocation Disputes.**

An agency may protest a proposed system within 30 calendar days of the original distribution.

- Protests will only be considered **IF**:

3.1.7..1. The frequency allocation does not conform to Plan criteria

**OR,**

3.1.7..2. The objecting agency can show harmful interference is likely based on the information submitted by the agency requesting the new allocation

**OR,**

3.1.7..3. The Chairperson can show harmful interference is likely based on the information submitted by the agency requesting the new allocation.

- If an agency with pre-licensed/Region approved co-channel or adjacent channel allocations objects to a proposed allocation due to concerns about potential interference, the objecting agency may request field tests be done to confirm or refute interference potential. The completion of these field tests and the results will be required for Regional application approval. Coverage area service/interference contours of the proposed system(s) should meet values designated in Section 7.1 of this document.
- Any costs associated with field tests or any other requirements to obtain Region 51 Plan approval are the responsibility of the agency submitting application to Region 51.
- The parties involved must resolve the allocation dispute and notify the Region Chair within 30 calendar days. If the parties involved cannot resolve the allocation dispute within that timeframe, then a special full Committee meeting will be scheduled to consider and vote on the protest.
- ***The burden of proof will be on the protesting party.*** The protesting party may be liable for any costs associated with the protest if the complaint is unfounded.
- If approved, the application will be submitted through the CAPRAD database to the applicant's chosen FCC-certified frequency coordinator for processing.

### 3.1.8. **Lower Power "Campus Eligible" Digital General Use Channels.**

With the implementation of 700 MHz public safety spectrum throughout Region 51, there may be opportunities for increased channel reuse when developing radio systems for "campus" type operations.

- Examples of those who may capitalize on this opportunity include hospitals, stadiums, parks or places of public gathering, public universities, transit systems, correctional facilities and mental health facilities. While these channels have been designated in county pool allotments with proper designation, they do not enjoy the benefits of countywide channels in that they are not cleared for

usage over a wide area. In many instances, facilities require a smaller or more specific geographical coverage area than assumed in the initial channel packing plan and may be able to be reused more efficiently.

- These "campus" type systems also, in many cases, require in-building or confined space/ tunnel radio coverage or communications along a linear pathway, such as a maintenance or right of way. These channels may also be used for "vehicular repeater" (MO3) operation.
- Public safety channels can be allotted to this type operation in a Region and can lead to effective system development, along with increased spectral efficiency, if power levels and Area of Protection (AOP) of the area are taken into account in system planning. These parameters must be established appropriate to the area of coverage.
- These channels are NOT eligible to be utilized throughout the county they are licensed in but to a specific geographic area, unless otherwise licensed. The Low Power channel will be licensed on an as need or first come, first serve basis.
- The following criteria must be adhered to when requesting channels from Region 51 for operations of this type:
  - 3.1.8..1. The 40dBu service contour of the proposed system must not exceed an area more than 5 miles or 8 Km from the proposed service area.
  - 3.1.8..2. When this 5-mile distance extends to an adjacent Region, the applicant must obtain concurrence from the adjacent Region. Reduced external antenna heights, along with reduced ERP, directional antenna, distributed antenna systems, down tilt, radiating "leaky coax," are all tools that should be utilized in the development of these type systems.
  - 3.1.8..3. Region 51 will ensure the development of these types of systems will in no way interfere with co-channel or adjacent channel users within Region 51 or Region 51's adjacent Regions.
- The Chairperson, or a majority of the members of the Region, has the authority to request and require engineering studies from the applicant that indicate no harmful interference will be introduced to any co-channel or adjacent channel existing user prior to application approval.

- 3.1.8..1. For co-channel assignments, the 50dBu service contour of the proposed stations will be allowed to extend beyond the defined service area for a distance no greater than 2 miles. An adjacent/alternate channel shall be allowed to have its 60 dB (50, 50) contour touch, but not overlap the 40dB service (50, 50) contour of an adjacent/alternate system being protected. Evaluations should be made in both directions to ensure compliance.
  - 3.1.8..2. The approval of systems utilizing county allotment channels labeled “Campus”, are subject to approval of the Regional planning committee. They are the final authority on parameters associated with “campus” type operations.
- When Region 51 receives an application for low power fixed use and the proposed service contour encroaches onto an adjacent Region prior to the channel allotted to the Region being implemented in a specific system, the application must be modified so the service contour does not encroach into the adjacent Region OR the applicant must supply the Region 51 700 MHz Regional Planning Committee with written concurrence from the adjacent Region permitting the original design.

## **3.2. Procedure for Frequency Coordination**

The Region 51 Planning Committee re-worked the original CAPRAD pre-sort to match the needs of Region 51 (see Section 16). Region 51 will participate in the CAPRAD database and keep the Regional Plan and current frequency allotment/allocation information on this database.

### **3.2.1. Initial Application.**

Applicants must submit the initial FCC application to the Regional Planning Committee so the committee can ensure the application complies with all elements of the regional plan. If approved, the Regional Planning Committee will make sufficient notification to the applicant's selected FCC certified Frequency Coordinators through the CAPRAD database. This process meets the requirements of Rule 90.176 (c).

### **3.2.2. Authority to Change CAPRAD**

The Region 51 Regional Planning Committee has the ability and authority to change the original CAPRAD frequency allotments.

- In order to keep the most effective frequency allotments within Region 51, a review of the allotments may be made at one of the scheduled meetings by the full committee and recommended changes to the Plan will be voted on. The majority of members in

attendance at a meeting of the full Regional Planning Committee must approve any changes to the Regional allotments.

- If Plan modifications are approved, the Chairperson will, if necessary, obtain adjacent Region approval and file a Plan amendment indicating the approved changes with the Federal Communications Commission. The procedure for Orphaned Channels is Section 7.3 of this Plan.

### **3.2.3. Return of Channels**

If at any time a system is allocated channels within Region 51 and the system cannot be developed within the agreed upon guidelines (slow growth), the channels will be returned to the county pool allotments they originated from and again be available to other agencies in the Region.

## **3.3. Allocation of Narrowband “General Use” Spectrum.**

All agencies requesting spectrum during the initial filing window will be allocated channels if the Region 51 Plan requirements are met.

The Region 51 Technical & Implementation Subcommittee recommends that allotments be made on the basis of one 12.5 KHz channel for every one (1) voice channel requests and one 12.5 KHz channel for each narrowband data channel request. This recommendation is approved by the full Committee and is part of this Plan.

In order to promote spectrum efficiency, Region 51 will encourage that systems allocated 25 KHz channel blocks will utilize the entire channel and not “orphan” any portions of a system designated channel.

Section 7.3 addresses Orphaned Channels.

## **3.4. Low Power Analog Eligible Channels.**

The FCC in the 700 MHz band plan set aside channels 1 - 8 paired with 961 – 968 and 949 – 958 paired with 1909 – 1918 for low power use for on-scene incident response purposes using mobiles and portables subject to Commission-approved Regional Planning Committee Regional Plans. Transmitter power must not exceed 2 watts (ERP).

Channels 9 –12 paired with 969 – 972 and 959 – 960 paired with 1919 – 1920 are licensed nationwide for itinerant operation. Transmitter power must not exceed 2 watts (ERP). These channels may operate using analog operation. To facilitate analog modulation, this Plan will allow aggregation of two 6.25 KHz channels for 12.5 KHz bandwidth.

On scene temporary base and mobile relay stations are allowed (to the extent FCC rules allow) antenna height limit of 6.1 meter (20 feet) AGL (Above Ground Level). Vehicular repeater operation (MO3) is also allowed. However, users are encouraged to



operate in simplex mode with the least practical amount of power to reliably maintain communications whenever possible. This Plan does not limit use to analog only operations and channels are intended for use in a wide variety of applications that may require digital modulation types as well. The use of EIA/ TIA-102, Project 25 Common Air Interface is required when using a digital mode of operation.

In its dialog leading up to CFR §90.531 allocating the twenty-four low power 6.25 KHz frequency pairs (of which eighteen fall under RPC jurisdiction<sup>1</sup>), the Federal Communications Commission (FCC) suggested that there is a potential for multiple low power applications, and absent a compelling showing, a sharing approach be employed rather than making exclusive assignments for each specific application as low power operations can co-exist [in relatively close proximity] on the same frequencies with minimal potential for interference due to the 2 watt power restriction.

Whereas advantages exist in not making assignments, the reverse is also true. If, for example, firefighters operate on a specific frequency or set of frequencies in one area, there is some logic in replicating that template throughout the Region for firefighter equipment. If there are no assignments, such a replication is unlikely.

In seeking the middle ground with positive attributes showing up both for assignments and no assignments, we recommend the following regarding assignments associated with the eighteen (18) low power channels for which the Regional Planning Committee has responsibility:

- Generic - Channel #'s 1-4 and 949-952 are set aside as generic base channels for use by public safety agencies operating within Region 51, and the complementary mobile channels # 961-964 and 1909-1912 are set aside as generic mobile channels also for use by public safety agencies likewise operating within Region 51.
- Fire/ EMS/ Consequence Management - Channel #'s 5-8 are designated as Fire Protection/ Emergency Medical and Consequence Management base channels for licensing and exclusive use by the Fire/Emergency Medical disciplines, and the complementary mobile channel #'s 965-968 are set aside as Fire/Emergency Medical and Consequence Management mobile channels also for licensing and exclusive use by the Fire/Emergency Medical disciplines.
- Law Enforcement/ Crisis Management - Channel #'s 953-956 are set aside as Law Enforcement/Crisis Management base channels for licensing and exclusive use by the Law Enforcement discipline, and the complementary mobile channel #'s 1913-1916 are set aside as Law Enforcement/Crisis Management mobile channels also for licensing and exclusive use by the Law Enforcement discipline.
- Multidisciplinary Joint Public Safety Operations - Channel #'s 957-958 are set aside as Multidisciplinary Joint Public Safety Operations base channels for licensing and the complementary mobile channel #'s 1917-1918 are also set



aside as Multidisciplinary Joint Public Safety Operations Channels for use by political subdivisions and public safety agencies operating under a unified command at a common incident for the express mission of safety of life, property or environment.

- Simplex operations may occur on either the base or mobile channels. Users are cautioned to coordinate on scene use among all agencies involved, particularly when the use of repeater modes is possible at or in proximity to a common incident. Users should license multiple channels and be prepared to operate on alternate channels at any given operational area. Again, Region 51 Regional Planning Committee will require  
(see paragraphs 35 through 51 in FCC's Third Memorandum Opinion and Order for WT Docket No. 96-86 adopted September 18, 2000) all 700 MHz users to have the capability to access ALL of the NCC approved interoperability channels in both duplex and simplex modes.

Following is a table of the low power channels.

| Channel # | Frequency  | Use       | Channel # | Frequency  |
|-----------|------------|-----------|-----------|------------|
| 1         | 769.003125 | RPC Admin | 961       | 799.003125 |
| 2         | 769.009375 | RPC Admin | 962       | 799.009375 |
| 3         | 769.015625 | RPC Admin | 963       | 799.015625 |
| 4         | 769.021875 | RPC Admin | 964       | 799.021875 |
| 5         | 769.028125 | RPC Admin | 965       | 799.028125 |
| 6         | 769.034375 | RPC Admin | 966       | 799.034375 |
| 7         | 769.040625 | RPC Admin | 967       | 799.040625 |
| 8         | 769.046875 | Itinerant | 968       | 799.046875 |
| 9         | 769.053125 | Itinerant | 969       | 799.053125 |
| 10        | 769.059375 | Itinerant | 970       | 799.059375 |
| 11        | 769.065625 | Itinerant | 971       | 799.065625 |
| 12        | 769.071875 | Itinerant | 972       | 799.071875 |
| 949       | 774.928125 | RPC Admin | 1909      | 804.928125 |
| 950       | 774.934375 | RPC Admin | 1910      | 804.934375 |
| 951       | 774.940625 | RPC Admin | 1911      | 804.940625 |
| 952       | 774.946875 | RPC Admin | 1912      | 804.946875 |
| 953       | 774.953125 | RPC Admin | 1913      | 804.953125 |
| 954       | 774.959375 | RPC Admin | 1914      | 804.959375 |
| 955       | 774.965625 | RPC Admin | 1915      | 804.965625 |
| 956       | 774.971875 | RPC Admin | 1916      | 804.971875 |
| 957       | 774.978125 | RPC Admin | 1917      | 804.978125 |
| 958       | 774.984375 | RPC Admin | 1918      | 804.984375 |
| 959       | 774.990625 | Itinerant | 1919      | 804.990625 |
| 960       | 774.996875 | Itinerant | 1920      | 804.996875 |

### 3.5. Dispute Resolution – Intra-Regional

In the event an agency disputes the implementation of this Plan or the Federal Communications Committee approval of this Plan or parts of this Plan, the agency must notify the Chair of the dispute in writing.

- 3.5.1. **Protest over New Spectrum.**  
**This section does not apply to “protests over new spectrum” allocations.** Refer to the “Procedure for Requesting Spectrum Allotments.....Allocation Disputes”
- 3.5.2. **Informal Resolution.**  
The Chair will attempt to resolve the dispute on an informal basis. If a party to the dispute employs the Chair, then the Vice Chair will attempt resolution. In such cases, the Chair shall be deemed to have a conflict of interest and will be precluded from voting on such matters.
- 3.5.3. **Dispute Resolution Committee.**  
If after 30 days the dispute is not resolved, the Chair (or Vice Chair) will appoint a Dispute Resolution Committee consisting of two members from governmental agencies and at least five members from different agencies in Region 51. That committee will select a Chair to head the committee and a secretary to document the proceedings.
- 3.5.4. **Operation of Dispute Resolution Committee.**  
The Regional Plan Chair (or Vice Chair) will represent the Region in presentations to the Dispute Resolution Committee. The Committee will hear input from the disputing agency, any effected agencies and the Region Chair. The Committee will then meet in executive session to prepare a recommendation to resolve the dispute.
- 3.5.5. **NPSTC Review.**  
Should this recommendation not be acceptable to the disputing agency/agencies, the dispute and all written documentation from the dispute will be forwarded to the National Regional Planning Oversight Committee, a subcommittee of the National Public Safety Telecommunications Committee (NPSTC) for review. As a last resort, the dispute will be forwarded to the Federal Communications Commission for final resolution.

## 4. Priority Matrix

### 4.1. Allocation Requests Conflict

In the event that spectrum allocation requests conflict and cannot all be accommodated, the following matrix will be used to determine priority for allotment. This matrix will only be used if two requests are received in the same time frame for the same number of channels. Otherwise, the first come first served procedure of Section 3.1 will be used.

#### 4.1.1. Service (Maximum score 100 points)

Priority is given to users fundamentally involved with the protection of Life and Property – Police, Fire, EMS, Emergency Management, combined/multi-jurisdictional systems, etc. Each type of service has predetermined point value as follows:

- Law Enforcement – 100 points
- Fire – 100 points
- EMS – 100 points
- EM – 80 points
- Combined/Multi-Jurisdictional – 100 points
- Local Government – 50 points: Utility – 15 points; Maintenance – 15 points; Administration – 10 points; Other local government use – 10 points

An applicant for a system for multiple services will be scored on the basis of the sum of the maximum points for each service weighted by the percentage that each service represents of the total system. For example, a system application for use by 50% law enforcement, 25% fire, 10% EMS, and 15% local government (5% utility operations and 5% maintenance) would be scored as follows: law enforcement – 100 point maximum \* 50% system use = 50 points; fire – 100 maximum \* 25% use = 25 points; EMS – 100 point maximum \* 10% use = 10 points; Local Government (maintenance operations) - 15 points \* 15% use = 2.25 points; and Local Government (other use) – 5 points \* 15% use = .75 points. Total points awarded for this system is the sum of 50+25+10+2.25+.75 for a total of 88 points.

#### 4.1.2. Inter-system & Intra-system interoperability (Maximum score 100 points)

How well the proposed system will be able to communicate with other levels of government and services during an emergency on “regular” channels, not the I/O channels. Interoperability must exist among many agencies to successfully accomplish the highest level of service delivery to the public during a major incident, accident, natural disaster or terrorist

attack. Applicants requesting 700 MHz spectrum shall inform the Region of how and with whom they have been achieving interoperability in their present system. The applicant shall stipulate how they will accomplish interoperability in their proposed system (gateway, switch, cross-band repeater, console cross patch, software defined radio, or other means) for each of the priorities listed below:

- Disaster and extreme emergency operation for mutual aid and interagency communications – 35 points.
- Emergency or urgent operation involving imminent danger to life or property – 30 points.
- Special event control, generally of a preplanned nature (including task force operations) – 20 points.
- Single agency secondary communications – 10 points.
- Routine day-to-day non-emergency operations – 5 points.

4.1.3. Loading (Maximum score 100 points)

Is the system part of a cooperative, multi-organization system? Is the application an expansion of an existing 800 MHz system? Have all NPSPAC channels been assigned (where technically feasible)? A showing of maximum efficiency or a demonstration of the system's mobile usage pattern could be required in addition to loading information. Based on population, number of units, what are the talk groups?

4.1.4. Spectrum Efficient Technology (Maximum score 100 points)

How spectrally efficient is the system's technology? Trunked systems are considered efficient as well as any technological systems feature, which is designed to enhance the efficiency of the system and provide for the efficient use of the spectrum.

4.1.5. Systems Implementation Factors (Maximum score 50 points)

- Applicants should submit some form of proof of financial commitment, accompanied by a RFP (Request for Proposal) outlining the design of the proposed system and detailing the development of the requested channels will be required to be submitted to the Regional Planning Committee prior to approval. If funding has been provided by a line item budget equivalent in a sufficient amount for immediate implementation, a score of 50 points will be awarded.

4.1.6. Geographic Efficient (Maximum Score 50 points)

The ratio of subscriber units to area covered and the channel reuse potential are two subcategories. The higher the ratio (mobiles divided by square miles of coverage) the more efficient the use of the frequencies. Those systems which cover large geographic areas will have a greater

potential for channel reuse and will therefore receive a high score in this subcategory.

4.1.7. Givebacks (Maximum Score 25 points)

Consider the number of channels given back, the extent of availability, and usability of those channels to others.

## **4.2. More Applicants than Frequencies**

If there are more applicants than frequencies available for a given area, the above criteria will be used to grade each application before the committee.

## **4.3. Process Treated as Dispute**

*This process, if required, will be treated as a dispute and the procedures outlined in Section 3.6 using the above criteria will be used to allocate the frequencies.*

## **5. Process for Handling Unformed Regions**

### **5.1. Adjacent Regions**

There are no unformed adjacent Regions to Region 51 and Letters of Concurrence have been received from all four (4) adjacent Regions (18, 40, 49, and 53).

## 6. Coordination with Adjacent Regions

### 6.1. Adjacent Regions

6.1.1. The Regions that are adjacent to or within seventy (70) miles of Region 51 are listed below:

- Region 18 Louisiana

**Regional Chairman**

**Louisiana**

William R. Vincent, Sr. Chairman  
Region 18, 700 MHz Public Safety Planning Committee  
Louisiana Public Safety Planning Advisory Committee  
P.O. Box 82236  
Lafayette, Louisiana 70598  
PH: (337) 291-5060  
FAX: (337) 291-5080  
Email: [eoc@lafayettegov.net](mailto:eoc@lafayettegov.net)

- Region 40 Texas (Central and Northeast)

**Regional Chairman**

**Texas (Central and Northeast)**

J. Daniel Scrivner  
Manager of Communications  
Department of Communications and Information Services  
City of Dallas  
3131 Dawson St.  
Dallas, TX 75226  
P: 214-670-7995  
F: 214-670-7984  
Email: [j.scrivner@dallascityhall.com](mailto:j.scrivner@dallascityhall.com)

- Region 49 Texas Central (Austin Area)

**Regional Chairman**

**Central Texas (Austin Area)**

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- Region 53 Texas Southern (San Antonio Area)

**Regional Chairman**

**Southern Texas**

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## **6.2. Notification**

Region 51 has coordinated channel allocations and received concurrence with all its bordering Regions by providing copies of the Region 51 Plan (including channel allotments) to each adjacent Region using the CAPRAD database and by mailing hard copies of the Plan to the adjacent Region's Chairperson or Convener.

## **6.3. Copies of Plan**

In seeking Regional concurrence, the Chairperson has given copies of this Plan to the Chairperson of Region 18, 40, 49 and 53. The Region 51 Plan was also available for viewing by all Regions via the NLECTC CAPRAD 700 MHz database and the Region 51 web site, <http://www.region51.hctx.net>. The CAPRAD pre-coordination database shows those channels available that will not interfere with Region 51 allotments or systems.

## **6.4. Use of CAPRAD**

The CAPRAD database and its associated packing Plan, as modified by the Region 51 RPC, provide minimum channel allotments for all of Region 51's bordering Regions. This method was recommended by the NCC Implementation Subcommittee as a way to assure that adjacent Regions, which did not enter the Regional Planning process immediately, would not find all frequencies assigned in their borders. Therefore, adjacent Regions 18, 40, 49 and 53 should all be able to satisfy voice and narrowband data requests along their border areas with Region 51.

## **6.5. Resolve Intra-Regional Requests**

If an adjacent Region has difficulties satisfying intra-regional requests due to channel allocation within Region 51, this committee pledges to work with that adjacent Region to resolve any issues that might hinder interoperability or reduce any benefit to public



safety communications.

## **7. System Design/ Efficiency Requirements**

### **7.1. Interference Protection**

The frequency allotment list will be based on an assumption that the systems will be engineered on an interference-limited basis, not a noise floor-limited basis. Agencies are expected to design their systems for maximum signal levels within their coverage area and minimum levels in the coverage area of other co-channel users. Coverage area is normally the geographical boundaries of the Agency(s) served plus an area three to five miles beyond.

- 7.1.1. Systems should be designed for minimum signal strength of 40 dBu in the system coverage area while minimizing signal power out of the coverage area. TIA/EIA TSB88-A (or latest version) will be used to determine harmful interference assuming 40 dBu, or greater, signal in all systems coverage areas. This may require patterned antennas and extra sites compared to a design that assumes noise-limited coverage.
- 7.1.2. To maximize spectrum utilization, receivers of the highest quality must be used in systems. Given a choice of radios to choose from in a given technology family, agencies should use the units with the best specifications. This plan will not protect agencies from interference if their systems utilize low quality receivers.

### **7.2. Spectrum Efficiency Standards**

Initial allotments will be made on the basis of 12.5 KHz channels. To maximize spectrum utilization, prudent engineering practices and receivers of the highest quality must be used in all systems. Given a choice of radios to choose from in a given technology family, agencies should use the units with the best specifications. This Plan will not protect agencies from interference if their systems are under-constructed (i.e.; areas with the established service area having minimum signal strength below 40 dBu), or the systems utilize low quality receivers. The applicant's implementation of best engineering practices will be encouraged by the Regional Planning Committee at all times.

- 7.2.1. It is the eventual goal of the FCC and the public safety community for radio equipment to meet the requirement of one voice channel per 6.25 KHz of spectrum. When applying for channels within Region 51, the applicants should acknowledge the deadline for converting all equipment to 6.25 KHz or 6.25 KHz equivalent technology is 12/31/2016. For narrowband mobile data requests, one mobile data channel will consist of two (2) 6.25 KHz channels/one (1) 12.5 KHz channel. Narrowband 6.25 KHz channels can be aggregated for data use to a maximum bandwidth of 12.5 KHz. As 6.25 KHz migration evolves, an agency that creates any "orphaned" 6.25 KHz channels should realize that these channels could

be allocated to near by agencies requesting channels to maintain consistent grouping and utilization of 12.5 KHz blocks within the Region.

- 7.2.2. Region 51 encourages small agencies to partner with other agencies in multi-agency or regional systems as they promote spectrum efficiency and both small and large agency capacity needs can be met. Loading criteria can also be achieved in multi-agency systems that will allow greater throughput for all agencies involved than that which could be achieved individually.

### **7.3. Orphaned Channels**

The narrowband pool allotments with Region 51 will have a channel bandwidth of 12.5 KHz. These 12.5 KHz allotments have been characterized as “Technology Neutral” and flexible enough to accommodate multiple technologies utilizing multiple bandwidths. If agencies choose a technology that requires less than 12.5 KHz channel bandwidth for their system, there is the potential for residual, “orphaned channels” of 6.25 KHz bandwidth immediately adjacent to the assigned channel within a given county area (see Section 17).

- 7.3.1. An orphan channel may (if possible) be used at another location within the county area where it was originally approved, if it meets co- and adjacent channel interference criteria. Region 51 will utilize “county areas” as guidelines for channel implementation within the area of Region 51. The definition of “county area” in this Plan is the geographical/political boundaries of a given county, plus a distance of up to 10 miles outside of the county or jurisdictional boundary.
- 7.3.2. If the channel, or a portion of a channel, is being moved into a “county area” that is within 30 miles of an adjacent Region, Region 51 will receive concurrence from the affected Region. By extending the “county area” by a designated distance, it is anticipated this will increase the possibility that orphaned channel remainders will still be able to be utilized within the “county area”, and reduce the potential for channel remainders to be forced to lay dormant and used with a county channel allotment. These movements will be documented on the National Law Enforcement & Corrections Technology Center CAPRAD database.
- 7.3.3. If the “orphaned channel” remainder does not meet co-channel and adjacent channel interference criteria by moving it within the “county area” as listed above, and it is determined by the Region that the “orphaned channel” cannot be utilized in the Region without exceeding the distance described in the “county area” listed above, Region 51 will submit a Plan amendment to the FCC to repack the channel to a location where its potential use will maintain maximum spectral efficiency. This FCC Plan amendment will require affected Region concurrence.

- 7.3.4. When in the best interest of public safety communications and efficient spectrum use within the Region, the Region 51 Regional Planning Committee shall have the authority to move orphan channel allotments, and/or co-/adjacent-channel allotments affected by the movement of orphan channels, within its “county areas”, which are defined above. This is to retain spectrum efficiency and/or minimize co-channel or adjacent channel interference between existing allotments within the Region utilizing disparate bandwidths and technologies. Absent a waiver, applicants may aggregate spectrum (upon RPC approval) up to a maximum bandwidth of 25 KHz.

## **7.4. System Implementation**

Most areas in South Texas Region 51 will be precluded from immediately implementing 700 MHz systems due to protection requirements of existing television stations using this band. These stations may not move until 2009, or after, depending on FCC’s rulings of digital TV implementation.

Therefore this plan will not require agencies to implement systems using the 700 MHz spectrum allocated to them until TV station(s) requiring protection relocate to another TV channel. After that date, agencies must release a System RFP within one year and sign a contract with a vendor within one year of releasing the System RFP. Implementations of general use channels shall be governed by FCC rule 90.529 (b) and (c).

If an agency does not implement in the time frames specified, that agency’s allocation may be removed from the allocation list. An Agency may file a request with the Regional Chair for an extension of time to implement. The request should include all details describing why the agency has not implemented and a new implementation schedule. The Committee Chair will advertise this request and set a date for the full committee to vote on the request.

## **7.5. Channel Loading**

It is the goal of Region 51 to encourage effect utilization of each frequency channel irrespective of bandwidth. We recommend the following:

- Each applicant for a trunked system should design their system for a minimum of 100 mobile and portable radios for each 12.5 KHz voice channel that will be placed in service within 5 years of the initial plan approval date.
- Single conventional channels should be designed for a minimum load of 70 radios per 12.5 KHz channel. Mobile, portable, data and control stations will all be considered within this count.

Channel loading will eventually be required to change to 70 units per 6.25 KHz channel, when narrowband technologies are available and when the FCC requires that 6.25 KHz as a single voice channel (vs. 12.5 at this time).

#### **7.5.1. Expansion of Existing 800 MHz Systems**

Existing 800 MHz systems that will be expanded to include the 700 MHz frequency spectrum will have to meet the requirements of the FCC and both 800 MHz NPSPAC Region 51 Plan and the Region 51 700 MHz Plan. If the two Region 51 Plans are in conflict, the Plan that gives the applicant the greater flexibility will govern.

## **8. Interoperability Channels**

### **8.1. Introduction**

Interoperability – An essential communications link within public safety and public service wireless communications systems which permits units from two or more different entities to interact with one another and to exchange information according to a prescribed method in order to achieve predictable results. The State of Texas will administer the 700 MHz interoperability channels via the Statewide Interoperability Executive Committee (SIEC).

### **8.2. Tactical Channels**

Region 51 will not set aside additional channels for interoperability use within the Region.

### **8.3. Deployable Systems**

Region 51 strongly supports the use of deployable systems, both conventional and trunked. Deployable systems are prepackaged systems that can deploy by ground or air to an incident to provide additional coverage and capacity on designated 700 MHz interoperability channels and/of agency specific General Use Channels.

### **8.4. Monitoring of Calling Channels**

Region 51 700 MHz licensees are responsible for any required monitoring of interoperable calling channels. The SIEC will develop operational guidelines for this function.

### **8.5. Incident Command System Standard**

Region 51 supports the NCC recommendations regarding the National Incident Management System (NIMS) and ICS.

## **9. Future Planning**

### **9.1. Database Maintenance.**

Region 51 used the CAPRAD database to start and then re-worked the initial pre-sort to meet the needs of Region 51. Careful consideration was given at the Region's borders to protect the adjacent Regions' interests. Region 51 will continue to utilize CAPRAD to allocate frequencies as applications are received and will update the database as licenses are granted.

### **9.2. Inter-Regional Dispute Resolution Process.**

In the event that a dispute arises between Region 51 and an adjacent Region or Regions, regarding spectrum allocations or implementation, which cannot be resolved within 60 days, the parties to the dispute will request a hearing by the National Regional Planning Oversight Committee. See Section 17 for details and Inter-Regional Dispute Resolution Agreements signed by adjacent Regions 18, 40, 49, and 53.

### **9.3. Amendment Process.**

Amendments to the Region 51 Plan will be made at Region 51 RPC meetings. All amendments will be voted on and passed or rejected by a simple majority vote. The Chairman or his designee will make the appropriate changes to the Plan and notify the adjacent Regions for their concurrence. Once the concurrences are received from the adjacent Regions, the Plan will be certified and filed, by the Chairperson, with the FCC for approval. Electronic filing will be the preferred method.

### **9.4. Meeting Announcements.**

Meeting announcements will be made per the Region 51 Bylaws. Region 51 will utilize Public Notices issued by the FCC, fax notification, email to individual, associations, agencies and vendors, TLETS network, verbal announcements at meetings and / or appropriate publications.

## 10. Certification

I hereby certify that all planning committee meetings, including subcommittee or executive committee meetings were open to the public. A summary of the deliberations of the Committee pursuant to adopting this Plan can be found in Section 13, Meeting attendance, agendas and other events.



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Doug Frankhouser  
Chairman, Region 51

February 25<sup>th</sup>, 2008



## **11. Bylaws**

### **Bylaws of the Region 51 700 MHz Regional Planning Committee**

*Adopted  
April 4, 2006*

#### **11.1. Name and Purpose**

The name of this Committee shall be Region 51 Regional Planning Committee. Its primary purpose is to foster and promote cooperation, planning, development, and evolution of Regional Plans and the implementation of these plans in the 700 MHz Public Safety Band within Region 51.

#### **11.2. Region 51 Includes the Texas Counties**

Angelina, Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Hardin, Harris, Houston, Jasper, Jefferson, Liberty, Matagorda, Montgomery, Nacogdoches, Newton, Orange, Polk, Sabine, San Augustine, San Jacinto, Shelby, Trinity, Tyler, Walker, Waller, Wharton.

#### **11.3. Members**

For purposes of this document, the term “member,” unless otherwise specified, refers to both voting and non-voting members.

#### **11.4. Numbers, Election and Qualifications**

The Regional 51 700 MHz Regional Planning Committee shall have two classes of members, “voting members” and “non-voting members.” New members may be added at annual, special, or regular meetings.

#### **11.5. Voting Members**

Voting members shall consist of one (1) representative (or alternate) from any single agency engaged in public safety eligible to hold a license under 47 CFR 90.20, 47 CFR 90.523 or 47 CFR 2.103 and are employed or volunteer in public safety in Region 51. Except that a single agency shall

be allowed no more than one vote for each distinct eligibility category (e.g. police, fire, EMS, airport, EOC, highway) within the agency's organization or political jurisdiction. In voting on any issue, the individual must identify himself/herself and the agency and eligibility category in which he or she represents.

## **11.6. Non-Voting Members**

Non-voting members are all other non-public safety personnel interested in furthering the goals of public safety communications.

## **11.7. Dual Membership**

A voting member may not be a voting member of another Region. Since Region 51 has several large cities on or near state borders, some members may want to participate in another committee. It is permissible to be a non-voting member in another Region and be a voting member in Region 51 as long as the Voting Member requirements are met.

## **11.8. Tenure**

In general, each member shall hold MEMBERSHIP from the date of acceptance until resignation or removal.

## **11.9. Power and Rights**

In addition to such powers and rights as are vested in them by law, or these bylaws, the members shall have such other powers and rights as the membership may determine.

## **11.10. Suspensions and Removal**

A representative may be suspended or removed with cause by vote of a majority of members after reasonable notice and opportunity to be heard.

- 11.10.1. To retain consistent voting rights, a single agency must have attended a minimum of three (3) meetings out of the last six (6) meetings. Region 51 will hold a minimum of one (1) meeting in a calendar year. After the date of approval of this Regional Plan by the Federal Communications Commission, all previous attendees are voting members, with the exception of non-voting commercial members.

- 11.10.2. A vote of the committee is the final determining factor regarding removal of a member from Region 51. A period of 6 months from the first day of removal is required before a removed member is eligible for reinstatement for membership in the Regional Planning Committee.

## **11.11. Resignation**

A member may resign by delivering written resignation to the chairman, vice-chairman, treasurer or secretary of the Regional Committee or to a meeting of the members. A resigning member is eligible for reinstatement to the Regional Planning Committee after a period of six months has lapsed, beginning on the first day of resignation.

## **11.12. Meetings**

The Region 51 700 MHz Planning Committee will meet no less than one (1) time per calendar year. A minimum notification of thirty (30) days will be given. The annual meeting may be held in the Houston, Texas area. This is centrally located within Region 51 and will provide the maximum opportunity for Regional participation. Any additional meetings may be located in a different city or town within the Region to attract and promote involvement in the committee. The Annual meeting should be held in the last quarter of calendar year and will be set by the Chairperson. Committee meetings will not be held on holidays or weekend days, unless called by the Region 51 Chairperson or as part of a public safety conference. At any time and when deemed necessary by the Chairperson, an additional meeting of the Region 51 Regional Planning Committee may be called. Video and/or Audio Teleconferencing may be conducted at meetings to include as many people as possible in the 700 MHz allocation process. The use of E-mail will be utilized by members and officers of Region 51 as needed to convey Regional issues at hand.

## **11.13. Special Meetings**

The Chairperson has the authority to call a meeting of the Regional Planning Committee when he deems it in the best interest of the Region and will provide notice of the special meeting to existing members of the Region (and the public) at least 5 days prior to the meeting. Special meetings of the members may be held at any time and at any place within the Regional Committee area. Special meetings of the members may be called by the chairman or by the vice-chairman, or in case of death,

absence, incapacity, by any other officer or, upon written application of two or more members.

## **11.14. Call and Notice**

### **11.14.1. Annual meeting**

Reasonable notice of the time and place of scheduled meetings of the members, not being less than 30 days, shall be given to each member. Such notice may specify the purposes of a meeting, but will specify meeting content if required by law or these bylaws or unless there is to be considered at the meeting (i) amendments to these bylaws or (ii) removal or suspension of a member who is an officer. Announcements of meetings, stating the time and place where the meeting is to be held, may be published in newspapers, land mobile radio periodicals, and disseminated via E-mail and other electronic forms. In addition, a press release may be issued urging parties interested in public safety communications to attend. Region 51 will notify the Federal Communications Commission, Chief of the Wireless Telecommunications Bureau, when a meeting time and place has been established for the Region 51 700 MHz Regional Planning Committee at least 30 days prior to the meeting.

### **11.14.2. Reasonable and sufficient notice**

Except as otherwise expressly provided, it shall be reasonable and sufficient notice to a member to send notice by mail at least five days or by e-mail/facsimile at least three days before any special meetings, addressed to such member at his or her usual or last known business address, or, to give notice to such member in person or by telephone at least three days before the meeting.

## **11.15. Quorum**

**For any meeting of the members, a majority of the officers and a minimum of at least three (3) voting members shall constitute a quorum.** Any meeting may be adjourned to such date or dates not more than sixty days after the first session of the meeting by a majority of the votes cast upon the question, whether or not a quorum is present, and the meeting may be held as adjourned without further notice.

## **11.16. Action by Vote**

Each voting member, representing a particular agency (one member per agency) shall have one vote; non-voting members have no voting rights. When a quorum is present at any meeting, a majority of the votes properly

cast by voting members present shall decide any question, including election to any office, unless otherwise provided by law or these bylaws.

## **11.17. Action by Writing**

Any action required or permitted to be taken at any meeting of the members may be taken without a meeting if all members entitled to vote on the matter consent to the action in writing and the written consents are filed with the records of the meetings of the members. Such consents shall be treated for all purposes as a vote at a meeting.

## **11.18. Proxies**

Voting members may vote either in person or by written proxy dated not more than one week before the meeting named therein, which proxies shall be filed before being noted with the secretary or other person responsible for recording the proceedings of the meeting. In the event named agency representative is unable to attend, he or she may send an alternate named representative to cast agency vote. A RPC member present via teleconference (audio or video) shall have voting status parallel to a member present at the meeting. If the facility is unable to accommodate teleconferencing (audio or video), or for any other reason teleconferencing cannot be accommodated in the meeting place, it is the responsibility of the member to attend the meeting in person or to vote by written proxy to have full voting rights. Unless otherwise specifically limited by their terms, such proxies shall entitle the holders thereof to vote at any adjournment of the meeting for which the proxy exists and the proxy shall terminate after the final adjournment of such meeting.

## **11.19. Special Interest Voting**

A voting member **cannot** have a commercial interest in any of his/her Region and/or adjacent Region's application(s) on which he/she is reviewing, approving and/or voting.

## **11.20. Officers and Agents**

### **11.20.1. Number and Qualification**

The officers of the Region 51 700 MHz Regional Planning Committee shall consist of a chairman, and a vice-chairman. The officers may also include a secretary and/or treasurer. All officers must be voting members of the Regional Committee.

11.20.2. **Election**

The officers shall be elected by the voting members at their first meeting and, thereafter, at a meeting determined by the membership. The terms of the officers in the Region 51 700 MHz RPC will be for two (2) years. In order to allow for consistency in the Plan creation and initialization process, the terms of elected officers will begin on the date of the FCC's approval of the Region 51 Plan.

11.20.3. **Tenure.**

The officers shall each hold office until the biannual election meeting of the members held within two years from the adoption of these bylaws, or until their successor, if any, is chosen, or in each case until he or she sooner dies, resigns, is removed or becomes disqualified.

11.20.4. **Chairman and Vice Chairman**

The chairman shall be the chief executive officer of the Regional Committee and, subject to the control of the voting members, shall have general charge and supervision of the affairs of the Regional Committee. The chairman shall preside at all meetings of the Regional Committee. The Vice Chairman, if any, shall have such duties and powers, as the voting members shall determine. The Vice-Chairman shall have and may exercise all the powers and duties of the chairman during the absence of the chairman or in the event of his or her inability to act.

11.20.5. **Treasurer**

The treasurer shall be the chief financial officer and the chief accounting officer of the Regional Committee. The treasurer shall be in charge of its financial affairs, funds, and valuable papers and shall keep full and accurate records thereof. In the absence of a treasurer within the Region 51 700 MHz Planning Committee, the Chairperson shall assign Region 51 treasurer duties as deemed necessary.

11.20.6. **Secretary**

The secretary shall record and maintain records of all proceedings of the members in a file or series of files kept for that purpose, which file or files shall be kept within the Region and shall be open at all reasonable times to the inspection of any member. Such file or files shall also contain records of all meetings and the original, or attested copies, of bylaws and names of all members and the address (including e-mail address, if available) of each. If the secretary is absent from any meeting of members, a temporary secretary chosen at the meeting shall exercise the duties of the secretary at the meeting. In the absence of a secretary within the

Region 51 700 MHz Planning Committee, the Chairperson shall assign Region 51 Secretary duties as deemed necessary and may appoint a non-voting member.

**11.20.7. Combining the office of Treasurer and Secretary**

If so decided by the Membership of Region 51, the duties of Treasurer and Secretary may be combined into one office.

**11.20.8. Suspensions or Removal**

An officer of the Region 51 Regional Planning Committee may be suspended with cause by vote of a majority of the voting members in attendance.

**11.20.9. Resignation**

An officer may resign by delivering his or her written resignation to the chairman, vice-chairman, treasurer, or secretary of the Regional Committee. Such resignation shall be effective upon receipt (unless specified to be effective at some other time), and acceptance thereof shall not be necessary to make it effective unless it so states.

**11.20.10. Vacancies**

If the office of any officer becomes vacant, the voting members may elect a successor. Each such successor shall hold office for the remainder of term, and in the case of the chairman, vice chairman, treasurer and / or secretary until his or her successor is elected and qualified, or in each case until he or she sooner dies, resigns, is removed or become disqualified.

## **11.21. Amendments**

These bylaws may be altered, amended or repealed in whole or in part by vote. The voting members may by a two-thirds vote of a quorum, alter, amend, or repeal any bylaws adopted by the Regional Committee members or otherwise adopt, alter, amend or repeal any provision which FCC regulation or these bylaws requires action by the voting members.

## **11.22. Dissolution**

This Regional Committee may be dissolved by the consent of two-thirds plus one of an assembled quorum of the membership at a special meeting called for such purpose. The FCC shall be notified.

## **11.23. Rules of Procedures**

The Conduct of Regional Meetings including debate and voting, shall be governed by *Simple Parliamentary Procedure*, Martha Nall, published by the University of Kentucky, College of Agriculture, Cooperative Extension Service, Publication # IP-15, Copyright 2000.



## 12. Region 51 Members, Agencies, etc.

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Email: [david.almaguer@cityofhouston.net](mailto:david.almaguer@cityofhouston.net)  
Voting Status: **Non-Voting**

Name: James Benton  
Agency: APCO / Texas Department of Public Safety  
Title: State Frequency Coordinator / Local Frequency Coordinator  
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Fax: 512-424-5899  
Email: [james.benton@txdps.state.tx.us](mailto:james.benton@txdps.state.tx.us)  
Voting Status: **Non-Voting**

Name: Craig Bernard; Region 51 Vice-Chair  
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Name: Keith Bickley  
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Name: John Birch  
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Name: David Brinkley  
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Voting Status: **Non-Voting**

Name: Steve Casko  
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Voting Status: **Non-Voting**

Name: John Chaney  
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Voting Status: **Non-Voting**

Name: Kyle Connor  
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Voting Status: **Non-Voting**

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Voting Status: **Non-Voting**

Name: John Duckworth  
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Voting Status: **Non-Voting**

Name: Randy Eaves  
Agency: Montgomery County Sheriff's Office  
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## 13. List of Meetings, Summaries of Minutes, Agendas

### 13.1. 1st Meeting November 8, 2000



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
TTY 202 / 418-2555  
Internet: <http://www.fcc.gov>  
<ftp.fcc.gov>

DA 00-1852  
August 18, 2000

#### WIRELESS TELECOM ACTION

#### TEXAS PUBLIC SAFETY PLANNING COMMITTEE (REGION 51) ANNOUNCES FIRST MEETING

In accordance with provisions contained in The Development of Operational, Technical and Spectrum Requirements For Meeting Federal, State and Local Public Safety Agency Communications Requirements For Priority Access Service, *First Report and Order* and *Third Notice of Proposed Rulemaking*, WT Docket No. 96-86, 14 FCC Rcd 152, 190 ¶ 77, the FCC has adopted a regional planning approach to spectrum management for specific channels throughout the 700 MHz band.

By this notice, the Region 51 (Texas - Houston) 700 MHz Public Safety Planning Committee announces that its first meeting will be held on November 8, 2000 at 9:00 a.m., C.S.T., at the George R. Brown Convention Center General Assembly Room C, 1001 Avenida de las Americas, Houston, Texas. The purpose of the meeting is to begin the formation of a coordinated regional plan for Region 51, Texas - Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

All parties having Public Safety interests within Region 51 are encouraged to attend. For further information, please contact:

Ronald Gillory, Convener  
Region 51, 700 MHz Public Safety Planning Committee  
Houston Police Department, Comms. Mngt. Div.  
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[www.hic.net/region51](http://www.hic.net/region51)

Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at: <http://www.fcc.gov/wtb/publicsafety/700MHz/>.

- FCC -





Drs. Jim and Sandy Gaston took these photos as they departed from Seattle's ferry terminal. Shown is Seattle Fire Department's Station 5 and two Seattle fireboats with powerful deck guns.



The Plainview Fire Department recently built a new fire station. This large, well-equipped facility has 5 bays and ample office space, and also houses emergency vehicles in addition to 4 trucks and 38 full-time personnel.

## PUBLIC NOTICE

### Texas Public Safety Planning Committee (Region 51) Announces First Meeting

**B**y this notice, the Region 51 (Texas-Houston) 700 MHz Public Safety Planning Committee announces that its first meeting will be held on November 8, 2000 at 9:00 a.m. at the George R. Brown Convention Center General Assembly Room C, 1001 Avenida de las Americas, Houston, Texas.

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www.hic.net/region51

Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at [www.fcc.gov/wtb/publicsafety/700MHz](http://www.fcc.gov/wtb/publicsafety/700MHz).



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## Letter to the Editor

### Dear Editor,

Regarding Mr. Kirk Miller's article "An Old Nemesis" in the May 2000 magazine, while I agree encryption and good communications protocols are the best solutions to communications security, I must point out some errors in the article.

- Scanners are hardly a "nemesis," nor is public safety at war with scanner listeners. In fact most scanner hobbyists are not criminals, nor do most – or even many – criminals use scanners. Many argue it's actually good to have citizens listening to their local public safety agencies at work. The privacy of the communications is already protected under the Communications Act of 1934. I am also a dispatcher and I, for one, welcome the audience.

- Analog trunking offers no security whatsoever, despite this having been a traditional issue raised by the sales forces of the system manufacturers. Any receiver that will tune the frequencies can be used to hear the details of the transmissions. In fact, non-trunk-tracking receivers are more capable of this task. Trunk-tracking scanners block out private-call and phone-patch transmissions in trunked systems.

### PUBLIC MEETING NOTICE:

The Texas Public Safety Region 51 Planning Committee for 700 MHz will meet Nov. 8, 2000, in Houston, Texas, at the George R. Brown Convention Center in General Assembly Room C at 9:00 a.m. Contact information: Ronald Gillory, Convener, Houston Police Department, Communication Management Division, 61 Riesner St. Houston, Texas, 77002. Phone: (713)247-5744. Fax: (713) 247-4368. E-mail: sezron@ix.netcom.com. Web site: [www.hic.net/region51](http://www.hic.net/region51).

All parties having public safety interests within Region 51 are encouraged to attend. FCC WT Docket No. 96-86 "First Report and Order and Third Notice of Proposed Rule-making" (adopted: Aug. 6, 1998, released: Sept. 29, 1998) adopted a regional-planning approach to spectrum management for specific channels throughout the 700 MHz band. The Public Safety National Coordination Committee (NCC) recommendation will be used to provide a coordinated regional plan for Region 51, Texas - Houston (including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton, and Matagorda).

- E.F. Johnson's trunked radio systems can be trunk-tracked easily with hobbyist-level, commercially available equipment. Computer-controlled scanners offer even more possibilities.

- Only a few of the dozens of current model scanners have serial ports. Few users know how, or bother, to employ them. Few such ports offer the capabilities implied by Miller.

- There is no commercial, hobbyist-level product currently available that will allow the reception of digital radio signals. I am not aware of any software on the Internet that will permit this, although there may be in the future.

- The most cost-effective route to real communications security is to digitally encrypt conventional analog systems, unless your current trunked system already incorporates encryption (and it may). Somewhat less secure methods are far cheaper than quoted in the article (e.g., voice inversion or rolling code). It is illegal to attempt to decode any encrypted (not merely digitally encoded) signal. So even low-level encryption offers some degree of judicial protection, if not actual communications security.

- Conventional, analog 4800-baud mobile data terminals are very easily intercepted and decoded. They should not be viewed as a partially secure means of communications.

- The Project 25 standard is not a form of encryption; it's merely a digital standard. Digital signals, in some form, will no doubt be the format of the future, but bandwidth and system capabilities will be the real impetus for change, not a concern over privacy.

- I question if it is possible to "gradually migrate" to an all-digital system as the author describes.

- Because the mere detection of the presence of even an encrypted signal could tip your hand to a truly sophisticated target, you would need something even more sophisticated than what the author describes. True-spread spectrum, frequency hopping or other low probability of intercept/detect radio sets would be indicated. Even better still is just good old communications discipline.

- From a judicial standpoint, might it not be better to pass local laws or ordinances that make it a crime to use a scanner to aid in the commission of any other crime, rather than trying to ban radio receivers? Forbidding citizens to tune in to portions of the spectrum seems awfully authoritarian and special-interest oriented in what is still supposed to be a free society.

Respectfully,

Ted Moran, E-mail List Administrator  
Chicago Area Radio Monitoring Association

## APCO PUBLIC SAFETY COMMUNICATIONS



ing. Now, however, the lieutenant wondered if the wireless-enabled unit would be one of the last communications tools still available to the deputies and other personnel in the field.

"I sent a message and immediately got through," Durko said. "Within minutes, the X-C 6250 Pro became the sheriff department's primary link in coordinating its disaster relief and public safety efforts."

Using the notebook, Durko and fellow senior officers directed the setup of a field command post at Farrington Field, a sports facility immediately adjacent to the downtown area. Before long, the department's patrol, criminal investigations and warrants divisions were working and sharing information together via the X-C 6250 Pro.

Elsewhere in the EOC, communications were so disrupted supervisors had no visual confirmation of the damage caused by the tornadoes. "The cable-TV feed had gone down, and because the EOC was in a concrete and steel building, we had no way of picking up the local-TV news reports," Durko said. "I downloaded some video footage that had been posted onto the Web site of one of the local TV stations, then played it over a video projector in the EOC. It was the first time supervisory personnel were able to actually see the extent of the damage to the buildings downtown."

Throughout the night, the sheriff's department and other authorities relied on the notebook computer network for important transmissions, receiving information and delivering orders via the "chat room" made possible by the workstation's wireless communications technology.

"We run a Cerulean Packet Cluster message switch on AT&T's Cellular Digital Packet Network over the X-C 6250 Pro, which creates a totally encrypted solution," Durko noted. "The system never failed and never bogged down despite the heavy use."

By six o'clock the next morning, cell phones and pagers had started to work again, and the downtown area was largely secure, [but] for more than 10 hours, the Itronix X-C 6250 Pro had been the department's lifeline.

Durko summed it up, "The whole county network is aware of the essential role this computer played. When a crisis hit, the X-C 6250 Pro made all the difference."

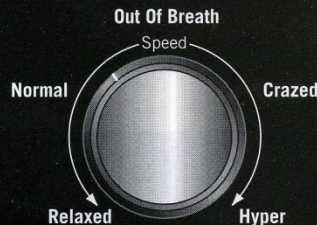
#### About the Itronix X-C 6250 Pro:

The X-C 6250 Pro, which has won the prestigious PC Week "Best of Comdex" Award and Customer Support Management's AFSMI "Best of Show" Award, is designed to function in the harshest of conditions and use. It features a magnesium-alloy casing and fully ruggedized internal components to protect the unit from exposure to rain, dust, shock, vibration, and extreme temperature fluctuations ranging from -40 to 140°F.

The workstation also has a new Colorvue SVGA display viewable in direct sunlight, and a Nitevue keyboard that enhances the viewing capacity of the keyboard in dark environments. Its integrated wireless data communications capabilities include CDPD/Cellular, Motient (ARDIS), or Bell South Wireless Data radio networks. ■

August 2000

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#### PUBLIC MEETING NOTICE:

The Texas Public Safety Region 51 Planning Committee for 700 MHz will meet Nov. 8, 2000, in Houston, Texas, at the George R. Brown Convention Center in General Assembly Room C at 9:00 a.m. Contact information: Ronald Gillory, Convener, Houston Police Department, Communication Management Division, 61 Riesner St. Houston, Texas, 77002. Phone: (713)247-5744. Fax: (713) 247-4368. E-mail: [sezron@ix.netcom.com](mailto:sezron@ix.netcom.com). Web site: [www.hic.net/region51](http://www.hic.net/region51).

All parties having public safety interests within Region 51 are encouraged to attend. FCC WT Docket No. 96-86 "First Report and Order and Third Notice of Proposed Rule-making" (adopted: Aug. 6, 1998, released: Sept. 29, 1998) adopted a regional-planning approach to spectrum management for specific channels throughout the 700 MHz band. The Public Safety National Coordination Committee (NCC) recommendation will be used to provide a coordinated regional plan for Region 51, Texas - Houston (including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angeliña, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton, and Matagorda).

Public Safety Communications 97

## APCO PUBLIC SAFETY COMMUNICATIONS



## AFFIDAVIT OF PUBLICATION

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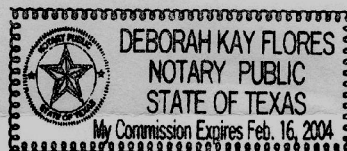
Before me, the undersigned authority, a Notary Public in and for the State of Texas, on the day personally appeared: GAIL FEAGINS, who after being duly sworn, says that she is the SUPERVISOR-ACCOUNTS RECEIVABLE at the HOUSTON CHRONICLE, a daily newspaper published in Harris County, Texas, and that the publication, of which the annexed herein, or attached to, is a true and correct copy, was published to-wit:

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*Deborah Kay Flores*  
 Notary Public in and for the State of Texas

## PUBLIC NOTICE

DA-00-1852  
 August 18, 2000

**WIRELESS TELECOM ACTION  
 TEXAS PUBLIC SAFETY PLANNING COMMITTEE  
 (REGION 51) ANNOUNCES FIRST MEETING**

In accordance with provisions contained in The Development of Operational, Technical and Spectrum Requirements For Meeting Federal, State and Local Public Safety Agency Communications Requirements For Priority Access Service, **First Report and Order** and **Third Notice of Proposed Rulemaking**, WT Docket No. 96-86, 14 FCC Rcd 152, 190 ¶ 77, the FCC has adopted a regional planning approach to spectrum management for specific channels throughout the 700 MHz band.

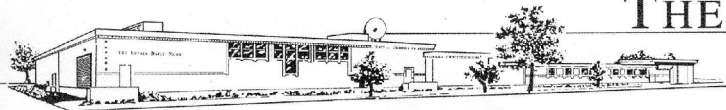
By this notice, the Region 51 (Texas - Houston) 700 MHz Public Safety Planning Committee announces that its first meeting will be held on November 8, 2000 at 9:00 a.m., C.S.T., at the George R. Brown Convention Center General Assembly Room C, 1001 Avenida de las Americas, Houston, Texas. The purpose of the meeting is to begin the formation of a coordinated regional plan for Region 51, Texas - Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

All parties having Public Safety interests within Region 51 are encouraged to attend. For further information, please contact:

Ronald Gillory, Convener  
 Region 51, 700 MHz Public Safety Planning Committee  
 Houston Police Department, Comms. Mngt. Div.  
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 sezron@ix.netcom.com  
 www.hic.net/region51

Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at:  
<http://www.fcc.gov/wtb/publicsafety/700MHz/>.

## HOUSTON CHRONICLE NEWSPAPER



# THE LUFKIN DAILY NEWS

ELLIS AT HERNDON  
LUFKIN, TEXAS 75902-1089

P.O. BOX 1089  
409-632-6631

## THE STATE OF TEXAS COUNTY OF ANGELINA

BEFORE ME, the undersigned, a Notary Public, this day personally came Jeannie Hensley, who after being sworn according to law that he/she is the **ADVERTISING MANAGER FOR THE LUFKIN DAILY NEWS**.

THE PUBLISHERS, of the The Lufkin Daily News, a daily newspaper published in Lufkin, Texas, in said County and State, attest that the attached printed material was published in said newspaper on SEPTEMBER 15, 2000.

### PUBLIC NOTICE

DA 00-1852  
August 18, 2000  
WIRELESS TELECOMMUNICATION

#### TEXAS PUBLIC SAFETY PLANNING COMMITTEE (REGION 51) ANNOUNCES FIRST MEETING

In accordance with provisions contained in The Development of Operational, Technical and Spectrum Requirements for Meeting Federal, State and Local Safety Agency Communications Requirements for Priority Access Service, First Report and Order and Third Notice of Proposed Rulemaking, WT Docket No. 96-86, 14 FCC Red 152, 190 ¶ 77, the FCC has adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band.

By this notice, the Region 51 (Texas - Houston) 700 MHz Public Safety Planning Committee announces that its first meeting will be held on November 8, 2000 at 9:00 a.m., C.S.T., at the George R. Brown Convention Center General Assembly Room C, 1001 Avenida de las Americas, Houston, Texas. The purpose of the meeting is to begin the formation of a coordinated regional plan for Region 51, Texas - Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

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Ronald Gillory, Convener  
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Public Safety Planning Committee  
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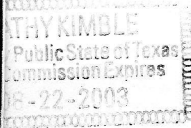
Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety website located at:  
<http://www.fcc.gov/wtb/publicsafety/700MHz/>.  
- FCC -

Jeannie Hensley  
Advertising Manager

### WORN TO BEFORE ME THIS

Kathy Kimble  
Notary Public, State of Texas

Kathy Kimble  
Notary's Printed Name



- 1 -

## THE LUFKIN DAILY NEWSPAPER



# **AGENDA**

## **1st MEETING OF THE PUBLIC SAFETY REGION 51 700 MHZ PLANNING COMMITTEE NOVEMBER 8, 2000**

### **MEETING ROOM PROVIDED BY THE CITY OF HOUSTON CONVENTION & ENTERTAINMENT FACILITIES DEPARTMENT**

Meeting called to order by Convener Ronald Gillory in accordance with provisions contained in WT Docket No. 96-86. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHZ band. The purpose of the meeting is to begin the formation of a coordinated Regional Plan for Region 51, Texas – Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

Remarks of Donald K. Hollingsworth, Senior Executive Assistant to Mayor Lee P. Brown Office of Public Safety and Drug Policy for the City of Houston.

Remarks of Larry Orr, Harris County Radio Division Chief and past Convener of WT Docket No. 87-112 of the 800 MHZ Region 51 Planning Committee.

Election of Committee Chairs.

Presentation by David Eierman and Bette Rinehart of Motorola, INC.

Next meeting notification - via public notice, e-mail and [www.hic.net/region51](http://www.hic.net/region51)

Bylaws committee members needed.

Adjourn

Ronald Gillory, Convener

Region 51, 700 MHZ Public Safety Planning Committee  
Houston Police Department, Communication Management Division  
61 Reisner St.,  
Houston, Texas 77002  
(713) 247-5744 (voice); (713) 247-4368 (fax)  
[www.hic.net/region51](http://www.hic.net/region51)

Additional information about 700 MHZ National/Regional Planning and related matters can be found on the Public Safety web site located at: <http://www.fcc.gov/wtb/publicsafety/700MHz/>.

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Fax: 713-247-4368

# **1<sup>st</sup> Meeting Summary – 11/08/00**

George R. Brown Convention Center  
1001 Avenidas de las Americas  
General Assembly Room  
Houston, TX 77010

Meeting room provided by the City of Houston Convention & Entertainment Facilities Dept

Purpose: The purpose of the meeting is to begin the formation of a coordinated 700 MHz Regional Plan for Region 51.

9:00 am Meeting called to order by Ronald Gillory.

9:01 am Welcome and introduction of guest speakers and panel members.

9:03 am Remarks by Donald K. Hollingsworth, Senior Executive Assistant to Mayor Lee P. Brown, Office of Public Safety and Drug Policy for the City of Houston.

9:08 am Remarks and motion to elect Committee Chairman by Larry Orr, Harris County Radio Division Chief and past Convener of WT Docket No. 87-112 of the 800 MHz Region 51 Planning Committee.

- Opened floor to nominations for election of Committee Chairperson.
- Larry Orr nominates Ronald Gillory.
- C.L. Ellis motion that nominations cease and Ronald Gillory be accepted by acclamation.
- Ben Zotyka second the motion.
- Larry Orr calls for a vote; none opposed.
- Ronald Gillory is elected Chairman.

9:20 am Comments and motion to elect Committee Vice-Chairman by newly elected Chairman, Ronald Gillory.

- Opened floor to nominations for the election of Vice-Chair.
- Ronald Gillory nominates Douglas Frankhouser.
- Larry Orr motion that nominations cease and Douglas Frankhouser be accepted by acclamation.
- C.L. Ellis seconds the motion.
- Ronald Gillory calls for a vote; none opposed.
- Douglas Frankhouser is elected Vice-Chairman.

9:25 am      Presentation by David Eierman and Bette Rinehart of Motorola, Inc.

10:07 am      Closing remarks, comments, Q & A.

10:22 am      Meeting adjourned by Ronald Gillory, Chairman.

## 13.2. 2nd Meeting May 29, 2003



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
TTY 202 / 418-2555  
Internet: <http://www.fcc.gov>  
<ftp.fcc.gov>

**DA 03-811**  
**March 18, 2003**

### WIRELESS TELECOMMUNICATIONS BUREAU ACTION

#### **REGION 51 (EAST TEXAS) 700 MHz REGIONAL PLANNING COMMITTEE ANNOUNCES SECOND MEETING**

The Region 51 (East Texas) 700 MHz Public Safety Regional Planning Committee Convener announces that its second meeting will be held on Thursday May 29, 2003 at 9:00 a.m., at the Missouri Community Center, 1522 Texas Parkway, Missouri City, Texas.

The purposes of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety in Region 51.

The Region 51 (East Texas) 700 MHz Public Safety Planning Committee meeting is open to the public. All eligible public safety providers whose sole purpose or principal purpose is to protect the safety of life, health, or property in Region 51 would utilize these frequencies. It is essential that not only public safety, but all government, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's Rules be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate and represent your agency's needs.

All interested parties wishing to participate in the planning for the use of new public safety spectrum in the 700 MHz band are encouraged to attend. For further information about the meeting, please contact:

Ron Gillory, Regional Chairman Texas-East  
Region 51, 700 Regional Planning Committee  
Houston Police Department  
Communications Management Division

# **AGENDA**

## **2nd MEETING OF THE PUBLIC SAFETY REGION 51 700 MHZ PLANNING COMMITTEE MAY 28, 2003**

### **MEETING ROOM PROVIDED BY MISSOURI CITY POLICE DEPARTMENT**

Meeting called to order by Chairman Ronald Gillory in accordance with provisions contained in WT Docket No. 96-86. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51, Texas – Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

Presentation by Greg Munchrath of RCC

Presentation by Ronald Gillory

Committee Formation

Draft 700 MHz Region 51 Plan

Next meeting notification - via public notice, e-mail and [www.hic.net/region51](http://www.hic.net/region51)

Committee members needed

Adjourn

Ronald Gillory, Convener

Region 51, 700 MHz Public Safety Planning Committee  
Houston Police Department, Comms. Mngt. Div.  
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Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at: <http://www.fcc.gov/wtb/publicsafety>.

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## **2<sup>nd</sup> Meeting Summary – 05/28/03**

Missouri City Community Center  
1522 Texas Parkway  
Missouri City, TX 77459

Meeting room provided by the Missouri City Police Department

**Purpose:** The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

9:00 am Meeting called to order and comments by Ronald Gillory.

- Native American participation.
- FCC dockets time frame for frequencies below 470 MHz re-channeling their systems operating on UHF.

9:05 am Welcome and introduction of new attendees and existing members.

9:08 am SWISS presentation by Greg Munchrath, Sr. Vice President and Western Division Manager of RCC Consultants.

- Discuss the TV spectrums and FCC rulings on closures.
- The need to develop plans for the use of the 700 MHz frequency.
- Various types of radio systems and equipment and the FCC guidelines.
- Explanations presentation of visual graphs and charts.
- Q & A session.

9:30 am Presentation by Ronald Gillory.

- Discuss the Regional Plan including conflict resolution.
- Organize Sub-Committees and recruit members/volunteers.
- Appoints Craig Bernard as Chairman for Technical Subcommittee
- Interoperability Subcommittee
- Implementation Subcommittee

9:51 am Comments by Larry Orr regarding Nextel frequencies and interference issues.

9:55 am      Closing remarks, comments, Q & A.

9:56 am      Meeting adjourned by Ronald Gillory, Chairman.

### 13.3. 3rd Meeting June 3, 2004



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
TTY 202 / 418-2555  
Internet: <http://www.fcc.gov>  
<ftp.fcc.gov>

**DA 04-1288**  
**May 6, 2004**

## WIRELESS TELECOMMUNICATIONS BUREAU ACTION

### REGION 51 (EAST TEXAS) 700 MHz REGIONAL PLANNING COMMITTEE ANNOUNCES THIRD MEETING

The Region 51 (East Texas) 700 MHz Public Safety Regional Planning Committee Convener announces that its third meeting will be held on Thursday June 3, 2004 at 10:00 a.m., at the Missouri Community Center, 1522 Texas Parkway, Missouri City, Texas.

The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety in Region 51.

The Region 51 (East Texas) 700 MHz Public Safety Planning Committee meeting is open to the public. All eligible public safety providers whose sole purpose or principal purpose is to protect the safety of life, health, or property in Region 51 would utilize these frequencies. It is essential that not only public safety, but all government, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's Rules be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate and represent your agency's needs.

All interested parties wishing to participate in the planning for the use of new public safety spectrum in the 700 MHz band and/or the newly allocated 4.9 GHz band within Region 51 are encouraged to attend. For further information about the meeting, please contact:

Ron Gillory, Regional Chairman Texas-East  
Region 51, 700 Regional Planning Committee  
Houston Police Department  
Communications Management Division  
61 Riesner Street

# **AGENDA**

## **3rd MEETING OF THE PUBLIC SAFETY REGION 51 700 MHZ PLANNING COMMITTEE JUNE 3, 2004**

### **MEETING ROOM PROVIDED BY MISSOURI CITY POLICE DEPARTMENT**

Meeting called to order by Chairman Ronald Gillory in accordance with provisions contained in WT Docket No. 96-86. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51, Texas – Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

Presentation by Katie Jauregul Lovette - Motorola - San Diego, California - Region 5

Presentation by Ronald Gillory - KFTH-TV Alvin and 700 MHz Channel Blockage Committee Formation.

Next meeting notification - via public notice, e-mail and [www.hic.net/region51](http://www.hic.net/region51)

Adjourn

Ronald Gillory, Convener

Region 51, 700 MHz Public Safety Planning Committee  
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Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety)

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### **3<sup>rd</sup> Meeting Summary – 06/03/04**

Missouri City Community Center  
1522 Texas Parkway  
Missouri City, TX 77459

Meeting room provided by the Missouri City Police Department

**Purpose:** The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

10:00 am Meeting called to order and comments by Ronald Gillory.

10:01 am Welcome and introduction of new attendees and existing members.

10:03 am Presentation by Katie Lovette, Systems Integration Manager, of Motorola.

- Discuss Region 5, San Diego, CA, process and challenges with having a plan accepted and approved by the FCC.
- Explanation of visual aids.
- Challenges of moving cable and television networks from the spectrum; blockage radius.
- Technical considerations to incorporate into plan.
- Maximizing frequency efficiency with short spacing and re-using.
- Interfacing 12 ½ and 6 1/4 equivalency.
- Q & A session.

10:26 am Presentation by Ronald Gillory.

- Review and discuss handouts and visual aids addressing the correct language to use.
- KFTH-TV, Alvin, TX and other broadcasting systems and usable spectrum, the impacts of the blockage and interference of each respective local television stations throughout Region 51.

11: 13 am Discussion of subcommittees meeting and the accessibility to the public; possible overlapping between the subcommittees.

11:23 am Closing remarks, comments, Q & A.

11: 26 am Meeting adjourned by Ronald Gillory, Chairman.

## 13.4. 4th Meeting August 5, 2004



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
TTY 202 / 418-2555  
Internet: <http://www.fcc.gov>  
<ftp.fcc.gov>

**DA 04-2152**  
**July 16, 2004**

### WIRELESS TELECOMMUNICATIONS BUREAU ACTION

#### **REGION 51 (EAST TEXAS) 700 MHz REGIONAL PLANNING COMMITTEE ANNOUNCES FOURTH MEETING**

The Region 51 (East Texas) 700 MHz Public Safety Regional Planning Committee announces that its fourth meeting will be held on Thursday, August 5, 2004 at 9:00 a.m., at the Johnnie Arolfo Civic Center, 400 W. Walker, League City, Texas.

The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety in Region 51.

The Region 51 (East Texas) 700 MHz Public Safety Planning Committee meeting is open to the public. All eligible public safety providers whose sole purpose or principal purpose is to protect the safety of life, health, or property in Region 51 would utilize these frequencies. It is essential that not only public safety, but all government, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's Rules be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate and represent your agency's needs.

All interested parties wishing to participate in the planning for the use of new public safety spectrum in the 700 MHz band and/or the newly allocated 4.9 GHz band within Region 51 are encouraged to attend. For further information about the meeting, please contact:

Ron Gillory, Regional Chairman Texas-East  
Region 51, 700 Regional Planning Committee  
Houston Police Department  
Communications Management Division  
61 Riesner Street

# **AGENDA**

## **4th MEETING OF THE PUBLIC SAFETY REGION 51 700 MHZ PLANNING COMMITTEE AUGUST 5, 2004**

### **MEETING ROOM PROVIDED BY LEAGUE CITY POLICE DEPARTMENT**

Meeting called to order by Chairman Ronald Gillory in accordance with provisions contained in WT Docket No. 96-86. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHZ band. The purpose of the meeting is to continue the allocation planning process of the 700 MHZ spectrum for public safety and the development of a Regional Plan for Region 51, Texas – Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

Introduction of New Attendees

Description of Data on the “Handout CD”

Region 40 700 MHz Final Plan Submitted for Region 51 Approval

Information on CAPRAD 700 MHz Frequency Database System; 4.9 GHz Stay Order  
FCC 04-185

Committee Formation

Next meeting notification - via public notice, e-mail and [www.hic.net/region51](http://www.hic.net/region51)

Adjourn

Ronald Gillory, Convener

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Additional information about 700 MHZ National/Regional Planning and related matters can be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety)

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## **4<sup>th</sup> Meeting Summary – 08/05/04**

Johnnie Arolfo Civic Center  
400 W. Walker St.  
League City, TX 77573

Meeting room provided by the League City Police Department

**Purpose:** The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

9:00 am Meeting called to order and comments by Ronald Gillory.

9:01 am Welcome and introduction of new attendees and existing members.

9:02 am Discuss the description of data on the “Handout CD”.

9:04 am Discuss and analyze Region 40 700 MHz Final Plan submitted to Region 51 for concurrence.

9:06 am Present the information on CAPRAD (Computer Assisted Pre-Coordination Resource and Database System)

9:08 am General and open discussion of Region 51 Plan – requirements, appendices, etc.

- The interoperability spectrum, bay station, and the State of Texas Interoperability Committee involvement.
- Discuss and document the outreach and solicitation of the participation of Native American Tribes.
- The statistics and demographics of the 28 counties in Region 51.
- Discuss voting and non-voting criteria.
- The 700 MHz Frequency Database System.
- Continue to analyze Region 40 700 MHz Final Plan submitted.

10:07 am Discuss the 4.9 GHz Stay Order FCC 04-185 and the regulation and compliance with FCC.

10:28 am Subcommittees updates.

10:30 am Closing remarks, comments, Q & A.

10:32 am Meeting adjourned by Ronald Gillory, Chairman.

## 13.5. 5th Meeting February 15, 2006



# PUBLIC NOTICE

**Federal Communications Commission**  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
TTY 202 / 418-2555  
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<ftp.fcc.gov>

**DA 05-3347**  
**December 29, 2005**

**WIRELESS TELECOMMUNICATIONS BUREAU ACTION**  
**REGION 51 (EAST TEXAS) 700 MHz**  
**PUBLIC SAFETY REGIONAL PLANNING COMMITTEE**  
**TO HOLD MEETING**

The Region 51 (East Texas) 700 MHz Public Safety Regional Planning Committee will hold its next planning meeting on Wednesday, February 15, 2006 at 9:30 a.m., at the Missouri City Police Department, 3849 Cartwright Rd, Missouri City, Texas 77459. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety in Region 51.

The Region 51 (East Texas) 700 MHz Public Safety Planning Committee meeting is open to the public. All eligible public safety providers whose sole purpose or principal purpose is to protect the safety of life, health, or property in Region 51 would utilize these frequencies. It is essential that not only public safety, but all government, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's Rules be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not conversant with telecommunications technology should ensure that their respective agencies are represented by suitably conversant staff.

All interested parties wishing to participate in the planning for the use of new public safety spectrum in the 700 MHz band are encouraged to attend. For further information about the meeting, please contact:

Ron Gillory, Chairman  
Region 51, 700 MHz Regional Planning Committee  
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--FCC--

# AGENDA

## 5th MEETING OF THE PUBLIC SAFETY REGION 51 700 MHZ PLANNING COMMITTEE FEBRUARY 15, 2006

### MEETING ROOM PROVIDED BY MISSOURI CITY POLICE DEPARTMENT

Meeting called to order by Chairman Ronald Gillory in accordance with provisions contained in WT Docket No. 96-86. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51, Texas – Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

Introduction of New Attendees and fill out Attendee Information Sheet

Description of Data on the “Handout CD”

Other Regional 700 MHz Plans Submitted For FCC Approval.

Information on CAPRAD 700 MHz Frequency Database System

Bette Rinehart Editor of “*The Communicator*” from Motorola GEMS Spectrum Strategy Team

Committee Formation - plan meeting

Next meeting notification - via public notice, e-mail and [www.hic.net/region51](http://www.hic.net/region51)

Adjourn

Ronald Gillory, Convener

Region 51, 700 MHz Public Safety Planning Committee  
Houston Police Department, Comms. Mngt. Div.  
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(713) 247-5744 (voice); (713) 247-4368 (fax)  
sezron@swbell.net      sezron@hic.net  
[www.hic.net/region51](http://www.hic.net/region51)

Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety)

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## 5<sup>th</sup> Meeting Summary – 02/15/06

Missouri City Police Department  
3849 Cartwright Rd.  
Missouri City, TX 77459

Meeting room provided by the Missouri City Police Department

- Purpose: The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.
- 9:30 am Meeting called to order and comments by Ronald Gillory.
- 9:31 am Welcome and introduction of new attendees and existing members.
- 9:32 am Distribute and briefly review Regional Plans from other Regions and the data on the “Handout CD” regarding CAPRAD.
- 9:34 am Presentation by Bette Rinehart, Regulatory Affairs Manager and Editor of “The Communicator” with Motorola GEMS Spectrum Strategy Team.
- FCC regulations, what the plan should include and CAPRAD.
  - Importance of Native American participation.
  - Concurrence from adjacent regions.
  - Membership documentation and requirements.
- 9:59 am Updates and discussion on Region 51 Plan presented by Ronald Gillory.
- Channel loading criteria and the FCC requirements.
  - Review Region 43 plan.
  - Meeting notifications to the public via newspaper ads in selected papers throughout Region 51.
  - Updates of the Implementation and Technical Subcommittees.
  - Other possible venues for future Committee and Subcommittee meetings.
  - Address voting per eligible entities criteria.
  - Allocation of frequency and channels
  - Forming By-Laws Committee.
- 10:52 am Closing remarks, comments, Q & A.
- 11:00 am Meeting adjourned by Ronald Gillory, Chairman.

## 13.6. 6th Meeting April 4, 2006



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
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Internet: <http://www.fcc.gov>  
<ftp.fcc.gov>

**DA 06-532**  
**March 6, 2006**

### **WIRELESS TELECOMMUNICATIONS BUREAU ACTION**

#### **REGION 51 (EAST TEXAS) 700 MHz**

#### **PUBLIC SAFETY REGIONAL PLANNING COMMITTEE**

#### **TO HOLD SIX PLANNING MEETINGS**

The Region 51 (East Texas)<sup>1</sup> 700 MHz Public Safety Regional Planning Committee will hold six (6) planning meetings in 2006. The meetings, each of which will start at 9:30 A.M., will be held at Texas Department of Public Safety, 12230 West Road, Houston, Texas 77065. The purpose of these meetings is to continue the allocation planning process of the 700 MHz spectrum for public safety in Region 51. The meeting dates are:

Tuesday, April 4, 2006  
Wednesday, May 24, 2006  
Wednesday, July 19, 2006  
Wednesday, August 30, 2006  
Wednesday, October 18, 2006  
Wednesday, December 6, 2006

All Region 51 (East Texas) 700 MHz Public Safety Planning Committee meetings are open to the public. All eligible public safety providers whose sole purpose or principal purpose is to protect the safety of life, health, or property in Region 51 would utilize these frequencies. It is essential that not only public safety, but all government, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's Rules be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not conversant with telecommunications technology should ensure that their respective agencies are represented by suitably conversant staff.

All interested parties wishing to participate in the planning for the use of new public safety spectrum in the 700 MHz band are encouraged to attend. For further information about the meeting, please contact:

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<sup>1</sup> Region 51, the East Texas area, is comprised of Houston (including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda).

# **AGENDA**

## **6th MEETING OF THE PUBLIC SAFETY REGION 51 700 MHZ PLANNING COMMITTEE**

**APRIL 4, 2006**

### **MEETING ROOM PROVIDED BY TEXAS DEPARTMENT OF PUBLIC SAFETY**

Meeting called to order by Chairman Ronald Gillory in accordance with provisions contained in WT Docket No. 96-86. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a 700 MHz Regional Plan for Region 51, Texas B Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

Introduction of New Attendees and fill out Attendee Information Sheet

Review of BYLAWS of Region 51 Draft Plan and Outline of the Draft Plan

Committee Formation

Closing

Ronald Gillory, Convener

Region 51, 700 MHz Public Safety Planning Committee  
Houston Police Department, Comms. Mngt. Div.  
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(713) 247-5744 (voice); (713) 247-4368 (fax)  
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[www.hic.net/region51](http://www.hic.net/region51)

Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety)

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## **6<sup>th</sup> Meeting Summary – 04/04/06**

Texas Department of Public Safety  
12230 West Rd.  
Houston, TX 77065

Meeting room provided by the Texas Department of Public Safety

**Purpose:** The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

9:30 am Meeting called to order and comments by Ronald Gillory.

9:35 am Welcome and introduction of new attendees and existing members.

9:36 am Review and discuss the language of the By-Laws for Region 51.

- Dispute Resolution issues.

10:10 am Acceptance of the By-Laws.

10:12 am Continue to review and discuss draft plan and outline of the draft plan.

- Region descriptions and profiles of all 28 counties.

10:42 am Closing remarks, comments, Q & A.

10:55 am Meeting adjourned by Ronald Gillory, Chairman.

## 13.7. 7th Meeting May 24, 2006



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
TTY 202 / 418-2555  
Internet: <http://www.fcc.gov>  
<ftp.fcc.gov>

**DA 06-532**  
**March 6, 2006**

**WIRELESS TELECOMMUNICATIONS BUREAU ACTION**  
**REGION 51 (EAST TEXAS) 700 MHz**  
**PUBLIC SAFETY REGIONAL PLANNING COMMITTEE**  
**TO HOLD SIX PLANNING MEETINGS**

The Region 51 (East Texas)<sup>1</sup> 700 MHz Public Safety Regional Planning Committee will hold six (6) planning meetings in 2006. The meetings, each of which will start at 9:30 A.M., will be held at Texas Department of Public Safety, 12230 West Road, Houston, Texas 77065. The purpose of these meetings is to continue the allocation planning process of the 700 MHz spectrum for public safety in Region 51. The meeting dates are:

Tuesday, April 4, 2006  
Wednesday, May 24, 2006  
Wednesday, July 19, 2006  
Wednesday, August 30, 2006  
Wednesday, October 18, 2006  
Wednesday, December 6, 2006

All Region 51 (East Texas) 700 MHz Public Safety Planning Committee meetings are open to the public. All eligible public safety providers whose sole purpose or principal purpose is to protect the safety of life, health, or property in Region 51 would utilize these frequencies. It is essential that not only public safety, but all government, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's Rules be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not conversant with telecommunications technology should ensure that their respective agencies are represented by suitably conversant staff.

All interested parties wishing to participate in the planning for the use of new public safety spectrum in the 700 MHz band are encouraged to attend. For further information about the meeting, please contact:

<sup>1</sup> Region 51, the East Texas area, is comprised of Houston (including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda).

# **AGENDA**

## **7th MEETING OF THE PUBLIC SAFETY REGION 51 700 MHZ PLANNING COMMITTEE MAY 24, 2006**

### **MEETING ROOM PROVIDED BY TEXAS DEPARTMENT OF PUBLIC SAFETY**

Meeting called to order by Chairman Ronald Gillory in accordance with provisions contained in WT Docket No. 96-86. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a 700 MHz Regional Plan for Region 51, Texas B Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

Introduction of New Attendees and fill out Attendee Information Sheet

Additions to Contact List

Review of ADDITIONS to Region 51 Draft Plan

Presentation and Discussion by Bobby Jones from RCC

Next meeting notification - via public notice, e-mail and [www.hic.net/region51](http://www.hic.net/region51)  
9:30 AM, Wednesday, June 19, 2006 at DPS – West Road & 290

Adjourn

Ronald Gillory, Convener

Region 51, 700 MHz Public Safety Planning Committee  
Houston Police Department, Comms. Mngt. Div.  
61 Reisner St.,  
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[www.hic.net/region51](http://www.hic.net/region51)

Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety)

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## **7<sup>th</sup> Meeting Summary – 05/24/06**

Texas Department of Public Safety  
12230 West Rd.  
Houston, TX 77065

Meeting room provided by the Texas Department of Public Safety

- Purpose: The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.
- 9:30 am Meeting called to order and comments by Ronald Gillory.
- 9:31 am Welcome and introduction of new attendees and existing members.
- Update membership information and contact list.
- 9:40 am Review and discuss the additions to Region 51 Draft Plan.
- Region descriptions and demographics.
  - Limitations and advantages of CAPRAD.
- 9:50 am Presentation by Bobby Jones, Managing Consultant with RCC.
- Pre-allotment process.
- 10:08 am Resume discussion and comments about Region 51 Draft Plan
- 10:13 am Closing remarks, comments, Q & A.
- 10:14 am Meeting adjourned by Ronald Gillory, Chairman.

## 13.8. 8th Meeting July 19, 2006



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
TTY 202 / 418-2555  
Internet: <http://www.fcc.gov>  
<ftp.fcc.gov>

**DA 06-532**  
**March 6, 2006**

### **WIRELESS TELECOMMUNICATIONS BUREAU ACTION**

#### **REGION 51 (EAST TEXAS) 700 MHz**

#### **PUBLIC SAFETY REGIONAL PLANNING COMMITTEE**

#### **TO HOLD SIX PLANNING MEETINGS**

The Region 51 (East Texas)<sup>1</sup> 700 MHz Public Safety Regional Planning Committee will hold six (6) planning meetings in 2006. The meetings, each of which will start at 9:30 A.M., will be held at Texas Department of Public Safety, 12230 West Road, Houston, Texas 77065. The purpose of these meetings is to continue the allocation planning process of the 700 MHz spectrum for public safety in Region 51. The meeting dates are:

Tuesday, April 4, 2006  
Wednesday, May 24, 2006  
Wednesday, July 19, 2006  
Wednesday, August 30, 2006  
Wednesday, October 18, 2006  
Wednesday, December 6, 2006

All Region 51 (East Texas) 700 MHz Public Safety Planning Committee meetings are open to the public. All eligible public safety providers whose sole purpose or principal purpose is to protect the safety of life, health, or property in Region 51 would utilize these frequencies. It is essential that not only public safety, but all government, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's Rules be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not conversant with telecommunications technology should ensure that their respective agencies are represented by suitably conversant staff.

All interested parties wishing to participate in the planning for the use of new public safety spectrum in the 700 MHz band are encouraged to attend. For further information about the meeting, please contact:

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<sup>1</sup> Region 51, the East Texas area, is comprised of Houston (including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda).

# AGENDA

## 8th MEETING OF THE PUBLIC SAFETY REGION 51 700 MHZ PLANNING COMMITTEE JULY 19, 2006

### MEETING ROOM PROVIDED BY TEXAS DEPARTMENT OF PUBLIC SAFETY

Meeting called to order by Chairman Ronald Gillory in accordance with provisions contained in WT Docket No. 96-86. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a 700 MHz Regional Plan for Region 51, Texas B Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

Introduction of Attendees and fill out Attendee Information Sheet

Review of ADDITIONS to Region 51 Draft Plan Copies of draft plan:  
[www.hic.net/region51/draftplan.pdf](http://www.hic.net/region51/draftplan.pdf)

Discussion

Next meeting notification - via public notice, e-mail and [www.hic.net/region51](http://www.hic.net/region51)  
9:30 AM, WEDNESDAY, AUGUST 30, 2006 at DPS – West Road & 290

Adjourn

Ronald Gillory, Convener

Region 51, 700 MHz Public Safety Planning Committee  
Houston Police Department, Comms. Mngt. Div.  
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Houston, Texas 77002  
(713) 247-5744 (voice); (713) 247-4368 (fax)  
sezron@swbell.net sezron@hic.net  
[www.hic.net/region51](http://www.hic.net/region51)

Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety)

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## **8<sup>th</sup> Meeting Summary – 07/19/06**

Texas Department of Public Safety  
12230 West Rd.  
Houston, TX 77065

Meeting room provided by the Texas Department of Public Safety

**Purpose:** The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

9:30 am Meeting called to order and comments by Ronald Gillory.

9:31 am Welcome and introduction of new attendees and existing members.

9:32 am Review and discuss handout and newspaper notifications and articles in public safety publications regarding meetings.

9:40 am Review and discuss the additions and updates to Region 51 Draft Plan.

- State Interoperability Committee.
- Avoid interruptions by designating certain frequencies.
- Subcommittee updates.
- Inter-local dispute resolution forms.
- Enter CASM (Communications Asset Systems Manager) into plan if possible

10:13 am Closing remarks, comments, Q & A.

10:16 am Meeting adjourned by Ronald Gillory, Chairman.

## 13.9. 9th Meeting August 30, 2006



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
TTY 202 / 418-2555  
Internet: <http://www.fcc.gov>  
<ftp.fcc.gov>

**DA 06-532**  
**March 6, 2006**

### **WIRELESS TELECOMMUNICATIONS BUREAU ACTION**

#### **REGION 51 (EAST TEXAS) 700 MHz**

#### **PUBLIC SAFETY REGIONAL PLANNING COMMITTEE**

#### **TO HOLD SIX PLANNING MEETINGS**

The Region 51 (East Texas)<sup>1</sup> 700 MHz Public Safety Regional Planning Committee will hold six (6) planning meetings in 2006. The meetings, each of which will start at 9:30 A.M., will be held at Texas Department of Public Safety, 12230 West Road, Houston, Texas 77065. The purpose of these meetings is to continue the allocation planning process of the 700 MHz spectrum for public safety in Region 51. The meeting dates are:

Tuesday, April 4, 2006  
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Wednesday, October 18, 2006  
Wednesday, December 6, 2006

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All interested parties wishing to participate in the planning for the use of new public safety spectrum in the 700 MHz band are encouraged to attend. For further information about the meeting, please contact:

<sup>1</sup> Region 51, the East Texas area, is comprised of Houston (including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda).

# AGENDA

## 9th MEETING OF THE PUBLIC SAFETY REGION 51 700 MHZ PLANNING COMMITTEE AUGUST 30, 2006

MEETING ROOM PROVIDED BY TEXAS DEPARTMENT OF PUBLIC SAFETY

Meeting called to order by Chairman Ronald Gillory in accordance with provisions contained in WT Docket No. 96-86. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a 700 MHz Regional Plan for Region 51, Texas B Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

Introduction of Attendees and fill out Attendee Information Sheet

Review of additions to Region 51 Draft Plan

Copies of draft plan: [www.hic.net/region51/draftplan.pdf](http://www.hic.net/region51/draftplan.pdf)

Discussion

Closing

Next meeting notification - via public notice, e-mail and [www.hic.net/region51](http://www.hic.net/region51)

9:30 AM, WEDNESDAY, OCTOBER 18, 2006 at DPS – West Road & 290

Adjourn

Ronald Gillory, Convener

Region 51, 700 MHz Public Safety Planning Committee  
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[www.hic.net/region51](http://www.hic.net/region51)

Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety)

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## **9<sup>th</sup> Meeting Summary – 08/30/06**

Texas Department of Public Safety  
12230 West Rd.  
Houston, TX 77065

Meeting room provided by the Texas Department of Public Safety

**Purpose:** The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

9:45 am Meeting called to order and comments by Ronald Gillory.

9:46 am Welcome and introduction of new attendees and existing members.

9:47 am Review and discuss the additions and updates to Region 51 Draft Plan.

- Update description and demographics of counties located in Region 51.
- Assignment and allocation of radio frequencies per CAPRAD database.
- Returning of signed copies of inter-local dispute resolution forms from adjacent counties.
- Challenges and issues relating to Nextel Communications and Center Point Energy.

10:15 am Announcements by various agencies present.

10:20 am Closing remarks, comments, Q & A.

10:30 am Meeting adjourned by Ronald Gillory, Chairman.



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
TTY 202 / 418-2555  
Internet: <http://www.fcc.gov>  
<ftp.fcc.gov>

**DA 06-532**  
**March 6, 2006**

**WIRELESS TELECOMMUNICATIONS BUREAU ACTION**  
**REGION 51 (EAST TEXAS) 700 MHz**  
**PUBLIC SAFETY REGIONAL PLANNING COMMITTEE**  
**TO HOLD SIX PLANNING MEETINGS**

The Region 51 (East Texas)<sup>1</sup> 700 MHz Public Safety Regional Planning Committee will hold six (6) planning meetings in 2006. The meetings, each of which will start at 9:30 A.M., will be held at Texas Department of Public Safety, 12230 West Road, Houston, Texas 77065. The purpose of these meetings is to continue the allocation planning process of the 700 MHz spectrum for public safety in Region 51. The meeting dates are:

Tuesday, April 4, 2006  
Wednesday, May 24, 2006  
Wednesday, July 19, 2006  
Wednesday, August 30, 2006  
Wednesday, October, 18, 2006  
Wednesday, December 6, 2006

All Region 51 (East Texas) 700 MHz Public Safety Planning Committee meetings are open to the public. All eligible public safety providers whose sole purpose or principal purpose is to protect the safety of life, health, or property in Region 51 would utilize these frequencies. It is essential that not only public safety, but all government, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's Rules be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not conversant with telecommunications technology should ensure that their respective agencies are represented by suitably conversant staff.

All interested parties wishing to participate in the planning for the use of new public safety spectrum in the 700 MHz band are encouraged to attend. For further information about the meeting, please contact:

<sup>1</sup> Region 51, the East Texas area, is comprised of Houston (including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda).

# AGENDA

## 10th MEETING OF THE PUBLIC SAFETY REGION 51 700 MHZ PLANNING COMMITTEE OCTOBER 18, 2006

### MEETING ROOM PROVIDED BY TEXAS DEPARTMENT OF PUBLIC SAFETY

Meeting called to order by Chairman Ronald Gillory in accordance with provisions contained in WT Docket No. 96-86. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a 700 MHz Regional Plan for Region 51, Texas Houston, including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

Introduction of Attendees and fill out Attendee Information Sheet

Review of ADDITIONS to Region 51 Draft Plan

Copies of draft plan: [www.hic.net/region51/draftplan.pdf](http://www.hic.net/region51/draftplan.pdf)

Discussion

Closing

Next meeting notification - via public notice, e-mail and [www.hic.net/region51](http://www.hic.net/region51)  
9:30 AM, WEDNESDAY, DECEMBER 6, 2006 at DPS – West Road & 290

Adjourn

Ronald Gillory, Convener

Region 51, 700 MHz Public Safety Planning Committee  
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Additional information about 700 MHz National/Regional Planning and related matters can be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety)

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# **10<sup>th</sup> Meeting Summary – 10/18/06**

Texas Department of Public Safety  
12230 West Rd.  
Houston, TX 77065

Meeting room provided by the Texas Department of Public Safety

**Purpose:** The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

9:30 am Meeting called to order and comments by Ronald Gillory.

9:31 am Welcome and introduction of new attendees and existing members.

9:32 am Review and discuss the additions and updates to Region 51 Draft Plan.

- Section 14 Operation Interoperability Channel.
- Statement of compliance to FCC for Interoperability to include in plan.
- Send copies of plan to surrounding Regions for comments and letters of concurrence.

9:37 am Closing remarks, comments, Q & A.

9:43 am Meeting adjourned by Ronald Gillory, Chairman.



# PUBLIC NOTICE

Federal Communications Commission  
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Washington, D.C. 20554

News media information 202 / 418-0500  
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**DA 06-532**  
**March 6, 2006**

## WIRELESS TELECOMUNICATIONS BUREAU ACTION

### REGION 51 (EAST TEXAS) 700 MHz PUBLIC SAFETY REGIONAL PLANNING COMMITTEE TO HOLD SIX PLANNING MEETINGS

The Region 51 (East Texas)<sup>1</sup> 700 MHz Public Safety Regional Planning Committee will hold six (6) planning meetings in 2006. The meetings, each of which will start at 9:30 A.M., will be held at Texas Department of Public Safety, 12230 West Road, Houston, Texas 77065. The purpose of these meetings is to continue the allocation planning process of the 700 MHz spectrum for public safety in Region 51. The meeting dates are:

Tuesday, April 4, 2006  
Wednesday, May 24, 2006  
Wednesday, July 19, 2006  
Wednesday, August 30, 2006  
Wednesday, October 18, 2006  
Wednesday, December 6, 2006

All Region 51 (East Texas) 700 MHz Public Safety Planning Committee meetings are open to the public. All eligible public safety providers whose sole purpose or principal purpose is to protect the safety of life, health, or property in Region 51 would utilize these frequencies. It is essential that not only public safety, but all government, Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's Rules be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not conversant with telecommunications technology should ensure that their respective agencies are represented by suitably conversant staff.

All interested parties wishing to participate in the planning for the use of new public safety spectrum in the 700 MHz band are encouraged to attend. For further information about the meeting, please contact:

<sup>1</sup> Region 51, the East Texas area, is comprised of Houston (including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda).

# **AGENDA**

## **11<sup>th</sup> Meeting of the Region 51 700MHz Public Safety Regional Planning Committee December 6th, 2006**

**Meeting Room Provided by Texas Department of Public Safety  
12230 West Rd., Houston, TX 77065**

The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a 700 MHz Regional Plan for Region 51, Texas including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

- Call to order by Vice-Chair Doug Frankhouser in accordance with provisions contained in WT Docket No. 96-86.
- Introduction of attendees and completion/verification of attendee information sheet.
- Planning of meeting dates, times, and locations for calendar year 2007
- Review and discussion of any issues discovered during review of draft
- Creation of review & finalization working group
- Set target date for completion of draft for final review
- Closing
  - Motion to adjourn -
  - Second -
- Next meeting reminder

A copy of the Region 51 draft may be found at <http://www.hic.net/region51/draftplan.pdf>.

Additional information about 700 MHz National/Regional Planning and related matters may be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety).



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# 11<sup>th</sup> Meeting Summary – December 6th, 2006

Texas Department of Public Safety  
12230 West Rd., Houston, TX 77065

The meeting room provided by the Texas Department of Public Safety

Purpose: The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

9:40 am Call to order by Doug Frankhouser, Vice-Chair

9:41 am Welcome and introduction of new attendees and existing members and completion/verification of attendee information sheets

9:42 am Reminder/discussion of upcoming regional tactical interoperability exercises

9:55 am Review and discuss updates to the Region 51 Draft Plan

10:50 am Discussion and creation of plan review & finalization working group; set meeting date

10:51 am Set meeting dates for first part of 2007

10:45 am Closing remarks, comments, Q&A

11:00 am Meeting adjourned by Doug Frankhouser, Vice-Chair



## **13.12. 12th Meeting January 30<sup>th</sup>, 2007**

# **AGENDA**

## **12<sup>th</sup> Meeting of the Region 51 700MHz Public Safety Regional Planning Committee January 30<sup>th</sup>, 2007**

**Meeting Room Provided by Texas Department of Public Safety  
12230 West Rd., Houston, TX 77065**

The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a 700 MHz Regional Plan for Region 51, Texas including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

- Call to order by Vice-Chair Doug Frankhouser in accordance with provisions contained in WT Docket No. 96-86.
- Introduction of attendees and completion/verification of attendee information sheet.
- Reminder of meeting dates for calendar year 2007 (2/28, 3/28, 4/25)
- Presentation of new website (<http://www.region51.hctx.net/>)
- Confirmation vote of current Region 51 Vice-Chair to Chair position
- Nominations and vote for Vice-Chair position
- Discussion of committee desire for Secretary position; if yes, nominations and vote for Secretary position
- Review and discussion of any issues discovered during review of draft
- Closing
  - Motion to adjourn -
  - Second -

- Next meeting reminder

A copy of the Region 51 draft may be found at <http://www.region51.hctx.net/>.

Additional information about 700 MHz National/Regional Planning and related matters may be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety).

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# 12<sup>th</sup> Meeting Summary – January 30<sup>th</sup>, 2007

Texas Department of Public Safety  
12230 West Rd., Houston, TX 77065

The meeting room provided by the Texas Department of Public Safety

Purpose: The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

9:45 am Call to order by Doug Frankhouser, Vice-Chair

9:46 am Welcome and introduction of new attendees and existing members and completion/verification of attendee information sheets

9:50 am Reminder of meeting dates for calendar year 2007 (2/28, 3/28, 4/25)

9:52 am Presentation of new website (<http://www.region51.hctx.net/>)

10:00 am Confirmation vote of current Region 51 Vice-Chair to Chair position

- Motion by Steve Jennings
- Second by Larry Orr
- Approved (unanimous)

10:02 am Nomination and vote for Vice-Chair position

- Craig Bernard nominated by Steve Jennings
- Second by Larry Orr
- Approved (unanimous)

10:04 am Nomination and vote for Secretary position

- Motion to have administrative assistant to Doug Frankhouser hold the position of Secretary by Doug Frankhouser
- Second by Steve Jennings
- Approved (unanimous)

- 10:06 am Presentation of current issues regarding the 700 MHz band by Bette Rinehart
- 10:30 am Review and discussion of any issues discovered during review of draft
- 10:55 am Reminder about upcoming meeting dates
- 10:56 am Closing remarks, comments, Q&A
- 11:00 am Meeting adjourned by Doug Frankhouser, Chair

## 13.13. 13th Meeting March 28<sup>th</sup>, 2007



# PUBLIC NOTICE

Federal Communications Commission  
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Washington, D.C. 20554

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DA 07-902  
February 28, 2007

### PUBLIC SAFETY AND HOMELAND SECURITY BUREAU ACTION

#### REGION 51 (EAST TEXAS) PUBLIC SAFETY REGIONAL PLANNING COMMITTEE TO HOLD 700 MHz PUBLIC SAFETY REGIONAL PLANNING COMMITTEE MEETINGS

The Region 51 (East Texas)<sup>1</sup> 700 MHz Public Safety Regional Planning Committee will hold planning meetings on March 28, 2007, and April 25, 2007. Both 700 MHz Public Safety Regional Planning Committee meetings will begin at 9:30 a.m., and will be held at the Texas Department of Public Safety, 12230 West Road, Houston, Texas.

The agendas for both meetings include:

- Call to order (Chairman Douglas Frankhouser)
- Introduction of attendees and completion/verification of attendee information sheet
- Reminder of new website (<http://www.region51.hctx.net/>)
- Discuss any issues discovered during review of draft
- Adjourn
- Next meeting reminder

Both Region 51 Public Safety Regional Planning Committee meetings are open to the public. All eligible public safety providers whose sole or principal purpose is to protect the safety of life, health, or property in Region 51 may utilize these frequencies. It is essential that public safety agencies in all areas of government, including state, municipality, county, and Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's rules, be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.

All interested parties wishing to participate in planning for the use of public safety spectrum in the 700 MHz band within Region 51 should plan to attend. For further information,

<sup>1</sup> Region 51, the East Texas area, includes Houston and the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

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-FCC-

**AGENDA**  
**13<sup>th</sup> Meeting of the Region 51 700MHz**  
**Public Safety Regional Planning Committee**  
**March 28<sup>th</sup>, 2007**

**Meeting Room Provided by Texas Department of Public Safety**  
**12230 West Rd., Houston, TX 77065**

The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a 700 MHz Regional Plan for Region 51, Texas including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

- Call to order by Chair Doug Frankhouser in accordance with provisions contained in WT Docket No. 96-86.
- Introduction of attendees and completion/verification of attendee information sheet.
- Reminder of new website (<http://www.region51.hctx.net/>)
- Review and discussion of any issues discovered during review of draft
  - Discuss changes made to the draft plan
  - Discuss voting requirements and identify voting members
  - Channel assignment plan being assembled by RCC
  - Engineering review of document (RCC)
  - Discuss voting approval of plan and go forward
- Closing
  - Motion to adjourn -
  - Second -
- Next meeting reminder

A copy of the Region 51 draft may be found at <http://www.region51.hctx.net/>.

Additional information about 700 MHz National/Regional Planning and related matters may be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety).

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# 13<sup>th</sup> Meeting Summary – March 28<sup>th</sup>, 2007

Texas Department of Public Safety  
12230 West Rd., Houston, TX 77065

The meeting room provided by the Texas Department of Public Safety

Purpose: The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

9:50 am Call to order by Doug Frankhouser, Chair

9:55 am Welcome and introduction of new attendees and existing members and completion/verification of attendee information sheets

9:58 am Reminder of new website (<http://www.region51.hctx.net/>)

- Review and discussion of any issues discovered during review of draft
- Discuss changes made to the draft plan
- Discuss voting requirements and identify voting members
- Channel assignment plan being assembled by RCC
- Engineering review of document (RCC)
- Discuss voting approval of plan and go forward

10:35 am Reminder about upcoming meeting dates

10:35 am Closing remarks, comments, Q&A

10:40 am Meeting adjourned by Doug Frankhouser, Chair

## 13.14. 14<sup>th</sup> Meeting April 25<sup>th</sup>, 2007



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media information 202 / 418-0500  
Fax-On-Demand 202 / 418-2830  
TTY 202 / 418-2555  
Internet: <http://www.fcc.gov>  
<ftp.fcc.gov>

DA 07-902  
February 28, 2007

### PUBLIC SAFETY AND HOMELAND SECURITY BUREAU ACTION

#### REGION 51 (EAST TEXAS) PUBLIC SAFETY REGIONAL PLANNING COMMITTEE TO HOLD 700 MHz PUBLIC SAFETY REGIONAL PLANNING COMMITTEE MEETINGS

The Region 51 (East Texas)<sup>1</sup> 700 MHz Public Safety Regional Planning Committee will hold planning meetings on March 28, 2007, and April 25, 2007. Both 700 MHz Public Safety Regional Planning Committee meetings will begin at 9:30 a.m., and will be held at the Texas Department of Public Safety, 12230 West Road, Houston, Texas.

The agendas for both meetings include:

- Call to order (Chairman Douglas Frankhouser)
- Introduction of attendees and completion/verification of attendee information sheet
- Reminder of new website (<http://www.region51.hctx.net/>)
- Discuss any issues discovered during review of draft
- Adjourn
- Next meeting reminder

Both Region 51 Public Safety Regional Planning Committee meetings are open to the public. All eligible public safety providers whose sole or principal purpose is to protect the safety of life, health, or property in Region 51 may utilize these frequencies. It is essential that public safety agencies in all areas of government, including state, municipality, county, and Native American Tribal, and non-governmental organizations eligible under Section 90.523 of the Commission's rules, be represented in order to ensure that each agency's future spectrum needs are considered in the allocation process. Administrators who are not oriented in the communications field should delegate someone with this knowledge to attend, participate, and represent their agency's needs.

All interested parties wishing to participate in planning for the use of public safety spectrum in the 700 MHz band within Region 51 should plan to attend. For further information,

<sup>1</sup> Region 51, the East Texas area, includes Houston and the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

please contact:

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-FCC-



**AGENDA**  
**14<sup>th</sup> Meeting of the Region 51 700MHz**  
**Public Safety Regional Planning Committee**  
**April 25th, 2007**  
**0930-1100 Hours**

Meeting Room Provided by Texas Department of Public Safety  
12230 West Rd., Houston, TX 77065

The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a 700 MHz Regional Plan for Region 51, Texas including the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

- Call to order by Chair Doug Frankhouser in accordance with provisions contained in WT Docket No. 96-86.
- Introduction of attendees and completion/verification of attendee information sheet.
- Reminder of final draft on website (<http://www.region51.hctx.net/>)
- Discussion of reviews of adjacent regional plans – Interoperability Committee?
- Identification of voting members by agency
- Review and discussion of final draft
- Vote on final draft
- Discussion of next meeting date(s)
- Closing
  - Motion to adjourn -
  - Second -

A copy of the Region 51 draft may be found at <http://www.region51.hctx.net/>.

Additional information about 700 MHz National/Regional Planning and related matters may be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety).

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# 14<sup>th</sup> Meeting Summary – April 25<sup>th</sup>, 2007

Texas Department of Public Safety  
12230 West Rd., Houston, TX 77065

The meeting room provided by the Texas Department of Public Safety

**Purpose:** The purpose of the meeting is to continue the allocation planning process of the 700 MHz spectrum for public safety and the development of a Regional Plan for Region 51.

9:40 am Call to order by Doug Frankhouser, Chair

9:45 am Welcome and introduction of new attendees and existing members and completion/verification of attendee information sheets

9:48 am Reminder of final draft available on the R51 website  
(<http://www.region51.hctx.net/>)

- Discuss reviews of adjacent regional plans – Interoperability Committee will review and make recommendations
- Review and discussion of final draft
  - Presentation on engineering rework of Section 15, and channel allocation methodology and tables in Section 16
  - Discuss final changes made to the draft plan
- Identification of voting members by agency
- Vote on final draft
  - Motion to approve – Tom Sorley
  - Second – Steve Jennings
  - Approved unanimously
- Discussion of next meeting date – set for September 19<sup>th</sup>, 2007

10:22 am Closing remarks, comments, Q&A

10:25 am Meeting adjourned by Doug Frankhouser, Chair

## 13.15. 15<sup>th</sup> Meeting October 3<sup>rd</sup>, 2007



# PUBLIC NOTICE

Federal Communications Commission  
445 12th St., S.W.  
Washington, D.C. 20554

News media Information: 202 / 418-0500  
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DA 07-3879  
September 10, 2007

### PUBLIC SAFETY AND HOMELAND SECURITY BUREAU ACTION

#### REGION 51 (TEXAS-HOUSTON) PUBLIC SAFETY REGIONAL PLANNING COMMITTEE TO HOLD 700 MHz PUBLIC SAFETY REGIONAL PLANNING COMMITTEE MEETING

The Region 51 (Texas-Houston)<sup>1</sup> 700 MHz Public Safety Regional Planning Committee (RPC) will hold its next meeting on Wednesday, October 3, 2007, beginning at 9:30 a.m., at the Houston Airport System, 16930 JFK Boulevard, Houston, Texas.<sup>2</sup>

The agenda for this meeting includes:

- Call to order (Chairman Douglas Frankhouser)
- Introduction of attendees and completion/verification of attendee information sheet
- Presentation of required changes to public safety 700 MHz frequencies
- Presentation of September meetings and RPC training in Austin
- Discuss final draft concurrence agreed to by adjacent regions --  
Region 18 (Louisiana), Region 40 (Northern Texas),  
Region 49 (Central Texas-Austin), and Region 53 (Texas-El Paso)

<sup>1</sup> Region 51 (Texas-Houston) area includes the City of Houston and the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

<sup>2</sup> 700 MHz Regional Planning Committees (RPCs) with approved plans or plans on file with the Commission (see WT Docket 02-378), are required to submit amended plans consistent with the decisions outlined in the 700 MHz proceeding. See Implementing a Nationwide, Broadband, Interoperable Public Safety Network in the 700 MHz Band; Development of Operational, Technical and Spectrum Requirements for Meeting Federal, State and Local Public Safety Communications Requirements Through the Year 2010, PS Docket No. 06-229, WT Docket No. 96-86, *Second Report and Order*, 22 FCC Rcd 15289 (2007) (*Second Report and Order*). The *Second Report and Order* was published in the *Federal Register* on August 24, 2007 at 72 Fed. Reg. 48,813; the effective date of the Order is October 23, 2007. Amended plans are due by **November 23, 2007** from the following RPCs: Approved plans - Region 5 (Southern California); Region 19 (New England Area); Region 24 (Missouri); Region 22 (Minnesota); Region 12 (Idaho); Region 43 (Washington); Region 41 (Utah); Region 3 (Arizona) and Region 40 (Northern Texas). Plans on file - Region 1 (Alabama); Region 27 (Nevada); Region 45 (Wisconsin); Region 7 (Colorado); Region 9 (Florida); Region 16 (Kansas) and Region 20 (Northern Virginia, Maryland and the District of Columbia). See Regional Plan Map depicting approved and submitted plans at <http://www.fcc.gov/pshs/spectrum/700mhz/regional-map.html>.

**AGENDA**  
**15<sup>th</sup> Meeting of the Region 51 700MHz**  
**Public Safety Regional Planning Committee**  
**October 3rd, 2007**  
**0930-1100 Hours**

Meeting Room Provided by  
Houston Airport System  
16930 JFK Blvd.  
Houston, TX 77032

The purpose of the meeting is to review issues facing the RPC's and the 700 MHz plans, what changes will have to be made as a result of the latest FCC rule changes, and in particular, how these changes affect Region 51. The FCC adopted a regional planning approach to spectrum management for specific channels through-out the 700 MHz band. Region 51, Texas includes the counties of Shelby, Nacogdoches, San Augustine, Sabine, Houston, Trinity, Angelina, Walker, San Jacinto, Polk, Tyler, Jasper, Newton, Montgomery, Liberty, Hardin, Orange, Waller, Harris, Chambers, Jefferson, Galveston, Brazoria, Fort Bend, Austin, Colorado, Wharton and Matagorda.

- Call to order by Chair Doug Frankhouser in accordance with provisions contained in WT Docket No. 96-86
- Introduction of attendees and completion/verification of attendee information sheet
- Presentation of NPSTC September meetings and training in Austin
  - David Dodson, Jim Bridwell – Harris County Regional Radio
- Presentation of FCC required changes to public-safety 700 MHz frequencies
  - Bette Reinhart - Motorola
  - Bobby Jones - RCC
- Review and discussion of final draft which was concurred to by R18, R40, R49, and R53, and was ready to be forwarded when the FCC made a rules change
- Discussion of go-forward with the R51 700 MHz plan
- Discussion of any other issues/topics affecting R51
  - PSIC Grants: John Chaney – Harris County Regional Radio
  - Letter of request from Port Arthur
- Closing

A copy of the Region 51 draft may be found at <http://www.region51.hctx.net/>.

Additional information about 700 MHz National/Regional Planning and related matters may be found on the Public Safety web site located at: [www.fcc.gov/wtb/publicsafety](http://www.fcc.gov/wtb/publicsafety).

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# 15<sup>th</sup> Meeting Summary – October 3rd, 2007

Houston Airport System  
16930 JFK Blvd., Houston, TX 77032

- Purpose: The purpose of the meeting is to review issues facing the RPC's and the 700 MHz plans, what changes will have to be made as a result of the latest FCC rule changes, and in particular, how these changes affect Region 51.
- 9:45 am Call to order by Chair Doug Frankhouser in accordance with provisions contained in WT Docket No. 96-86
- 9:46 am Welcome and introduction of attendees and completion/verification of attendee information sheet
- 9:50 am Presentation and discussion of NPSTC September meetings and training in Austin: David Dodson, Jim Bridwell – Harris County Regional Radio
- 10:00 am Presentation of FCC required changes to public-safety 700 MHz frequencies: Bette Reinhart – Motorola, Bobby Jones - RCC
- 10:30 am Review and discussion of final draft which was concurred to by R18, R40, R49, and R53, and was ready to be forwarded when the FCC made a rules change
- 10:40 am Discussion of go-forward with the R51 700 MHz plan
- 10:45 am Discussion of any other issues/topics affecting R51
- 10:48 am PSIC Grants: John Chaney – Harris County Regional Radio
- 10:55 am Letter of request from Port Arthur
- 10:57 am Closing remarks, comments, Q&A
- 11:00 am Meeting adjourned by Doug Frankhouser, Chair



## **14. 700 MHz Interoperability/Channel Nomenclature**

Region 51 will follow the State of Texas' interoperability/channel nomenclature.

## **15. NCC 700 MHz Pre-Assignment Rules/Recommendations**

### **15.1. Introduction**

This section describes a process for coordinating the initial block assignments of 700 MHz channels. The allocation of spectrum provided by CAPRAD is for planning purposes, particularly defining the minimum channels usage at the border of region 51 and neighboring Regions. Channel packing beyond CAPRAD will be based upon actual technical parameters and jurisdictional coverage requirements of the specific licensees. As such, CAPRAD provides a starting point for channel allotment not the most efficient utilization of the spectrum. The Region 51 Committee has the authority to utilize specific engineering analysis to move beyond CAPRAD to satisfy the spectrum requirements of public safety licensees.

### **15.2. Overview**

Assignments will be based on a defined service area for each applicant. This will normally be an area defined by geographical or political boundaries such as city, county or by a data file consisting of line segments creating a polygon that encloses the defined area. The service contour is normally allowed to extend slightly beyond the geo/political boundaries such that systems can be designed for maximum signal levels within the boundaries, or coverage area. Systems must also be designed to minimize signal levels outside their geo/political boundaries to avoid interference into the coverage area of other co-channel users.

For co-channel assignments, the 40 dB $\mu$  service contour will be allowed to extend beyond the defined service area by 3 to 5 miles, depending on the type of environment: urban, suburban or rural. The co-channel 5 dB $\mu$  interfering contour will be allowed to overlap the 40 dB $\mu$  service contour of the system being evaluated only in the extended service area and only if the overlap degradation of service area does not exceed 2%. For adjacent and alternate channels, the 60 dB $\mu$  interfering contour will be allowed to overlap the 40 dB $\mu$  service contour of the system being evaluated only in the extended service area and only if the overlap degradation of service area does not exceed 2%. The service contour reliability is defined at F(95,50), while the interference contours are defined at F(50,50).

Extension of the service contour is required to:

- Allow in-building coverage at the edge of the jurisdictional area

- Permit mobile communication during excursions beyond the jurisdictional area on an itinerant basis<sup>1</sup>

### 15.3. Discussion

Based upon the ERP/HAAT limitations referenced in 47CFR ¶ 90.541(a), the maximum field strength will be limited to 40 dB relative to 1µV/m (customarily denoted as 40 dBµ). It is assumed that this limitation will be applied similar to the way it is applied in the 821-824/866-869 MHz band. That is, a 40 dBµ field strength can be deployed up to a defined distance (extended service area) beyond the edge of the service area, based on the size of the service area or type of applicant, i.e. city, county or statewide system. The value of 40 dBµ in the 700 MHz band corresponds to a signal of -92.7 dBm, received by a half-wavelength dipole antenna.

Two primary concerns are addressed by the Region 51 Committee:

- Public safety systems must provide reliable ubiquitous coverage within the service area
- Public safety systems must be cost effective and not prohibitive to construct and operate

The Committee has chosen to define the service area to the public safety standard of 95% faded reliability to an extended service area 3-5 miles outside of the licensee's jurisdictional area or 3-5 miles beyond the combined jurisdictions in a multi-jurisdictional system. This provides a proper balance between the need to conserve and re-use spectrum, and the necessity to provide reliable service coverage at an affordable infrastructure cost.

### 15.4. Portable In-Building Coverage

Most Public Safety communications systems, today, are designed for portable in building coverage and the requirement for a typical coverage reliability of 95%. Buildings of 20 dB or greater penetration loss can be located at any point within the jurisdictional polygon of the licensee. The permitting of the service contour to extend 3-5 miles beyond the jurisdictional polygon at a faded 95% reliability will improve the ability to communicate into buildings located at the jurisdictional line. However, the Committee understands that this extended service area alone may not address the in-

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<sup>1</sup> Mobile communication beyond the jurisdictional boundary at a high reliability level is particularly important during the early stages of 700 MHz development. Mobile units may travel outside of the jurisdiction on an exigent basis and find that they are without any communication, particularly of adjacent jurisdictions are not operable at 700 MHz and/or the national interoperable channels are not constructed. This is an unacceptable situation.

building requirements of all licensees, particularly when a very high loss building is located at or very close to such boundaries. In these cases the licensee will need to specifically address the particular building with unique and innovative approaches.

## **15.5. Service Contour Extension Recommendation**

The resulting recommendation for extending the 40 dB $\mu$  service contour beyond the service area boundary is:

|                             |         |
|-----------------------------|---------|
| Urban (20 dB Buildings):    | 5 miles |
| Suburban (15 dB Buildings): | 4 miles |
| Rural (10 dB Buildings):    | 3 miles |

The Region 51 Committee may waive these limits upon demonstration by the licensee that the urbanization classification does not properly address the licensee's situation; however the maximum distance of the service area extension is 5 miles in all situations.

## **15.6. Interfering Contour**

The service and interference contours are plotted at differing reliability requirements. As such a direct relation between the dB levels is not proper. The service area is defined as 40 dB $\mu$  F(95,50), with is approximately 13 dB above a 40 dB $\mu$  F(50,50) contour, assuming a standard deviation of approximately 8 dB. Contours are calculated using methods described in TIA TSB-88B (or a subsequent later version), by using Okumura-Hata-Davidson propagation modeling, relative to an open environment. The modeling is to be based on a 1 arc second terrain data. Land Use-Land Cover (LULC) losses are to be applied; however the diffraction portion of the modeling, where it can serve to artificially limit the size of the contour, must be disabled<sup>2</sup>.

## **15.7. Co-Channel Interfering Contour Recommendation**

The Committee will allow the constructed 40 dB $\mu$  F(95,50) service contour to extend beyond the edge of the defined service area by the distance indicated in 15.5.

A co-channel shall be allowed to have its 5 dB $\mu$  (50,50) interfering contour to overlap the 40 dB $\mu$  extended service contour of the system being evaluated only if the reduction of overlap of the extended service area does not exceed 2% and does not overlap into the jurisdictional service area.

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<sup>2</sup> Diffraction modeling may limit the size of the contour by drawing the contour line at the first point where the signal drops below the contour limit, even if the signal increases beyond that point.

## **15.8. Adjacent and Alternate Channel Considerations**

Adjacent and alternate channels are treated as being on channel signals reduced by the value of Adjacent Channel Coupled Power (ACCP). This assumes that the primary mechanism for interference results from transmitter sideband noise appearing as an on-channel signal within the receiver bandwidth. Using the 47 CFR § 90.543 values of ACCP can facilitate the coordination of adjacent and alternate channels.

Based on 47 CFR ¶ 90.543 and the P25 requirement for an ACCP 65 dB into a 6.0 KHz channel bandwidth and leaving room for a migration from Phase 1 to Phase 2, allows for making the simplifying assumption that 65 dB ACCP is available for both adjacent 25 KHz spectrum blocks. For spectrum blocks spaced farther away, it must be assumed that transmitter filtering, in addition to transmitter performance improvements due to greater frequency separation, will further reduce the ACCPR. Therefore it is recommended that a consistent value of 65 dB ACCPR be used for the initial coordination of adjacent 25 KHz channel blocks. Rounding to be conservative due to the possibility of multiple sources allows the Adjacent Channel Interfering Contour to be approximately 20 dB above the 40 dBμ service contour, at 60 dBμ.

## **15.9. Adjacent Channel Interfering Contour Recommendation**

An adjacent channel shall be allowed to have its 60 dBμ (50,50) interfering contour overlap the 40 dBμ extended service contour of the system being evaluated only if the overlap degradation of the extended service area does not exceed 2% and does not overlap into the jurisdictional service area.

## **15.10. Final Detailed Coordination**

The coordination for frequencies prior to system procurement does not address the specific and unique circumstances of the particular system and is only adequate for presorting large blocks of spectrum to potential entities. A more detailed analysis should be included in the actual design phase to take all the issues into consideration. A detailed report to the Region 51 Committee is to be submitted by each license detailing the “As Built” system once it is completed for the purposes of subsequent channel assignment. This information is available to other potential licensees to assist with licensing and coordinating those new systems to avoid interference.

Additional factors that should be considered include:

- Degree of Service Area Overlap
- Different size of Service Areas
- Different ERPs and HAATs

- Actual Terrain and Land Usage
- Differing User Reliability Requirements
- Migration from Project 25 Phase 1 to Phase 2
- Site Separation
- Actual ACCP
- Balanced Systems
- Mobiles vs. Portables
- Use of voting
- Use of simulcast
- Radio specifications
- Simplex Operation

Special attention needs to be paid to the use of simplex operation. In this case, an interferer can be on an offset adjacent channel and in extremely close proximity to the victim receiver. This is especially critical in public safety where simplex operations are frequently used at a fire scene or during police operation. Simplex operations, other than those on the low power or interoperable channels, are generally not offered protection from interference.

## 16. Region 51 Channel Assignments

The frequency distribution plan for Region 51 has been based on the criteria set forth by the Region 51 RPC. The RPC for Region 51 has elected to configure the channel distribution plan based on a 12.5 KHz channel bandwidth as the original CAPRAD assignments were woefully inadequate for the needs of the Region. After careful engineering modeling and review to determine the most efficient use of available spectrum and to insure no interference with surrounding regions, the following tables contains the channel assignments at 12.5 KHz bandwidth channels. This will preclude the need for 25 KHz channel allocations in most areas with the exception of some bordering counties for the purposes of interoperability.

### 16.1. 700 MHz Channel Assignments for Region 51

#### 16.1.1. Methodology

The allocation of Region 51 channels was initiated utilizing the CAPRAD foundation of frequency assignments. The Harris County area, being central to Region 51, received the first layer of frequency assignments as part of the assignment process. This is the 1st Reuse Group assigned from the basic CAPRAD pool of frequencies in a narrowband 12.5 KHz configuration. The channel assignment to other counties was performed utilizing Normalized Capacity Loading and by availability from the existing CAPRAD configuration after the First Reuse assignments were completed. This was required in order to accommodate the channel spacing needed for the application of antenna systems. Due to the large population and number of channels allocated within Harris County, the assignment of channels in surrounding counties in some cases resulted in the splitting of 25 KHz groupings. Should 25 KHz channel designs be needed for a specific application or area in the Region, the channel plan could be reworked to accommodate the reconstruction of a limited quantity of 25 KHz channel slots. The assignment of channels was based on the following criteria:

- Maintain the integrity of all adjacent regions.
- Use one point (county centers) from which to calculate co-channel separations. Coordinates for these county centers were obtained from CAPRAD.
- Use Adjacent Regions' CAPRAD Pre-allotments and maintain 80 miles between co-channel assignments (based on county centers). *Please note that the FCC's 2007 reallocation of the 700 MHz Band Plan will create changes in CAPRAD Pre-Allotments in the form of a "relative shift" of all narrowband channel assignments. Region 51 presumed this "relative shift" in maintaining the integrity of all adjacent regions'*

*channel assignments. Should any adjacent region(s) stray from this “relative shift” and choose to make channel assignments that differ from that of the original CAPRAD Pre-allotment criteria, then that region must engineer their channel assignments while maintaining the integrity of this Region 51 Plan.*

- Within each county, obtain 150 KHz spacing between all channels in groups of ten. Maintained the integrity of all adjacent regions.

#### 16.1.2. Channel Spacing

A strict adherence to 250 KHz separation would severely limit the frequency pool availability for reuse throughout the Region. For sorting purposes, the channel spacing was based on a target separation of 250 KHz to achieve separation for antenna design limitations. In instances where 250 KHz separation cannot be achieved with contiguous channel assignments within a county, sufficient numbers of channels are available such that the use of multiple combiners will allow for appropriate separation within one antenna configuration. The co-channel separation was maintained with surrounding jurisdictions for all narrowband channel assignments as assigned in the originating CAPRAD plan. Adjacent channels within a single county can be designed with sufficient physical separation to allow for unobstructed operations from adjacent channel interference. This is due to the fact that the channel assignments for the 700MHz band do not overlap as in some other frequency bands.

The assignments for the Harris County area were partitioned into seven groups to accommodate potential transmit combiner configurations. Within each Harris County grouping, sufficient adjacent channel spacing is obtainable to make workable channel groupings in a typical transmit combiner. The primary impact of the frequency spread are the overall desired per-channel ERP, tower height, and antenna systems gains or losses. Use of more than one combiner may be required for channel spacing within a single group is less than 150 KHz, nonetheless, use of more than one combiner will most likely be required anyway when exceeding ten channels at a single location. The varied highlighting in the right side columns of the tables below indicates estimated combiner grouping.

#### 16.1.3. Edits to Frequency Assignments

Using the CAPRAD frequency assignments as a base template, the Harris County frequency assignments were plotted and recorded. In some cases, those counties with sufficient distance from Harris County were able to maintain most of their existing CAPRAD assignments per 12.5 KHz channel slot. It was noted that some of the original CAPRAD assignments



were less than the desired 80 miles from center to center of counties. These original CAPRAD assignments were not reassigned.

In general, the remaining counties for Region 51 plan were reassigned channels based on frequency availability and normalized loading. A sufficient channel pool exists to accommodate modifications to the existing plan for the reassignment or combination of channels for 25 KHz applications if needed, with limitations.

16.1.4. County Assignments

The columns, in the tables to follow, show the channel assignments for regions 18, 40, 49, 53, and 51 with each row showing the co-channel assignments relative to the primary sort column. In the Region 51 section on the right side of the table, the county listed in bold text under the “Primary Sort Assignment” is the newly reassigned grouping. (The location of this column may vary in accordance with the originating spreadsheet.) The search and sorting criteria was based on the channel separation required for a typical transmit combiner configuration.

The additional shading under the Region 51 columns show those frequencies (channels) that may be workable into a single transmit combiner. Highlighting of the same color indicates frequency use into one combiner. Additional system design will be needed to determine the target ERP and other system design parameters for the final location of the site.

The co-channel CAPRAD assignments for each frequency are listed on the left side of the table. The counties highlighted in yellow are the closest to the Region 51 assignment; however, they are not necessarily less than the desired 80 miles separation of county centers.

16.1.5. Coordination with Adjacent Regions

Frequency reuse is of vital importance to our region. Careful consideration was given to prevent/minimize interference during the resort process. Further, the CAPRAD frequencies along the borders were left in place so as not to disturb frequencies in adjacent regions. However, there may be channel assignments along the region's border that have the potential to be in conflict with adjacent region(s). Therefore, as a standard step in our application approval process, the Chair of Region 51 will forward via both electronic and via hardcopy a copy of all license applications that have proposed sites within 70 miles (113km) of the region's border to the adjacent region(s) and allow a fourteen day (14) period for the adjacent region(s) to raise any objection. If an objection is raised, the regional chairs will work to mitigate the issue. If said mitigation can't be reached, the situation will be handled via the dispute resolution process identified in section 17. If the Chair of Region 51

receives no response within the 14 day period, the application will then move forward in the normal approval process.

## 16.1.6. Harris County-1

| Harris County 1                               |                          |                          |                        |           |             |                                 |               |        |                   |
|---|--------------------------|--------------------------|------------------------|-----------|-------------|---------------------------------|---------------|--------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                          |                          |                        | Region 51 |             |                                 |               |        |                   |
| Region 49<br>Central Texas                    | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse                       | 2nd Reuse     |        | Freq Spread (kHz) |
| 1   | Brazos                   |                          | Cherokee               | 13        | 769.08125   | <a href="#">Harris County 1</a> | Sabine        |        |                   |
| 2   | Travis                   | Calhoun                  | Upshur                 | 53        | 769.33125   | <a href="#">Harris County 1</a> |               |        | 250               |
| 3   | Travis                   | Jackson                  | Vernon, Red River      | 93        | 769.58125   | <a href="#">Harris County 1</a> | Nacogdoches   |        | 250               |
| 4   | Travis                   |                          | Bossier,Evangeline     | 137       | 769.85625   | <a href="#">Harris County 1</a> |               |        | 275               |
| 5   | Travis                   |                          | Jeff Davis,Bossier     | 177       | 770.10625   | <a href="#">Harris County 1</a> | Nacogdoches   |        | 250               |
| 6   |                          | Gonzales                 | Vernon, Caddo          | 241       | 770.50625   | <a href="#">Harris County 1</a> | Houston       |        | 400               |
| 7   | Leon                     | Lavaca                   | Rapides, Vermilion     | 281       | 770.75625   | <a href="#">Harris County 1</a> | San Augustine |        | 250               |
| 8   |                          | Guadalupe                | Jeff Davis, Sabine     | 325       | 771.03125   | <a href="#">Harris County 1</a> |               |        | 275               |
| 9   | Caldwell                 |                          | Acadia                 | 345       | 771.15625   | <a href="#">Harris County 1</a> | Angelina      |        | 125               |
| 10  | Burleson                 | Calh, Guad               | Winn                   | 373       | 771.33125   | <a href="#">Harris County 1</a> | Jasper        |        | 175               |
| 11  | Lee                      | Dewitt                   | Panola                 | 393       | 771.45625   | <a href="#">Harris County 1</a> |               |        | 125               |
| 12  |                          | Calhoun                  | Winn,Evangeline        | 413       | 771.58125   | <a href="#">Harris County 1</a> | San Augustine |        | 125               |
| 13  |                          |                          | Grant,Acadia           | 441       | 771.75625   | <a href="#">Harris County 1</a> |               |        | 175               |
| 14  | Lee                      |                          | Vernon,Bossier         | 461       | 771.88125   | <a href="#">Harris County 1</a> |               |        | 125               |
| 15  |                          | Calhoun, Gonzales        | Beauregard, Red River  | 489       | 772.05625   | <a href="#">Harris County 1</a> |               |        | 175               |
| 16  | Travis                   | Lavaca                   | Caddo                  | 509       | 772.18125   | <a href="#">Harris County 1</a> | Trinity       |        | 125               |
| 17  | Burleson                 |                          | Vernon,Bossier         | 533       | 772.33125   | <a href="#">Harris County 1</a> |               |        | 150               |
| 18  | Leon                     |                          | Natchitoches           | 557       | 772.48125   | <a href="#">Harris County 1</a> | Nacogdoches   |        | 150               |
| 19  |                          |                          | Webster,Grant          | 577       | 772.60625   | <a href="#">Harris County 1</a> | Houston       | Newton | 125               |
| 20  | Brazos                   |                          | Natchitoches           | 605       | 772.78125   | <a href="#">Harris County 1</a> |               | Orange | 175               |
| 21  |                          |                          | Calcasieu, Caddo       | 629       | 772.93125   | <a href="#">Harris County 1</a> |               |        | 150               |
| 22  |                          | Vict, Guad               | Webster,Rapides        | 673       | 773.20625   | <a href="#">Harris County 1</a> | Nacogdoches   |        | 275               |
| 23  | Lee                      |                          | Jeff Davis, DeSoto     | 717       | 773.48125   | <a href="#">Harris County 1</a> | Angelina      |        | 275               |
| 24  | Limestone                | Guadalupe                | Winn, Acadia           | 781       | 773.88125   | <a href="#">Harris County 1</a> | Angelina      | Orange | 400               |
| 25  | Bastrop                  |                          | Natchitoches           | 821       | 774.13125   | <a href="#">Harris County 1</a> |               |        | 250               |
| 26  | Milam,Freestone          | Gonzales                 | Caddo,Acadia           | 861       | 774.38125   | <a href="#">Harris County 1</a> | Jasper        |        | 250               |
| 27  |                          | Gonzales                 | Caddo                  | 901       | 774.63125   | <a href="#">Harris County 1</a> | Jasper        |        | 250               |
| 28  |                          |                          | Caddo                  | 941       | 774.88125   | <a href="#">Harris County 1</a> |               |        | 250               |

## 16.1.7. Harris County-2

As in the previous Harris County-1 table, channel spacing under 250 KHz may be configured for separate combiner use therefore providing adequate separation.

| Harris County 2                                      |                          |                          |                             |           |             |                 |             |         |                   |
|--|--------------------------|--------------------------|-----------------------------|-----------|-------------|-----------------|-------------|---------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                          |                          |                             | Region 51 |             |                 |             |         |                   |
| Region 49<br>Central Texas                           | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana      | Chan      | Center Freq | 1st Reuse       | 2nd Reuse   |         | Freq Spread (kHz) |
| 1  |                          | Navarro, Gregg           | Calcasieu, Bossier, Rapides | 17        | 769.10625   | Harris County 2 |             |         |                   |
| 2  | Brazos                   | Lavaca                   | Rusk                        | 57        | 769.35625   | Harris County 2 |             |         | 250               |
| 3  | Leon                     |                          | Calcasieu, Caddo, Rapides   | 121       | 769.75625   | Harris County 2 |             |         | 400               |
| 4  | Robsn, Bast              |                          | Cherokee                    | 161       | 770.00625   | Harris County 2 | Newton      |         | 250               |
| 5  | Robsn, Bast, Limestone   | Victoria                 |                             | 201       | 770.25625   | Harris County 2 | Angelina    |         | 250               |
| 6  | Robertson                | Victoria                 | Webster, Evangeline         | 245       | 770.53125   | Harris County 2 | Nacogdoches |         | 275               |
| 7  |                          | Navarro                  | Caddo, Acadia               | 289       | 770.80625   | Harris County 2 | Tyler       |         | 275               |
| 8  | Freestone                |                          | Caddo                       | 329       | 771.05625   | Harris County 2 |             |         | 250               |
| 9  | Brazos                   |                          | Anderson                    | 349       | 771.18125   | Harris County 2 |             |         | 125               |
| 10   | Leon, Bast               |                          | Beauregard, Desoto          | 377       | 771.35625   | Harris County 2 |             |         | 175               |
| 11   |                          |                          | Webster                     | 397       | 771.48125   | Harris County 2 | Nacogdoches |         | 125               |
| 12   |                          | Cherokee                 |                             | 421       | 771.63125   | Harris County 2 | Jasper      |         | 150               |
| 13   | Robsn, Bast              | Victoria                 |                             | 445       | 771.78125   | Harris County 2 | Shelby      |         | 150               |
| 14   | Brazos                   | Calh, Guad               | Gregg                       | 465       | 771.90625   | Harris County 2 |             |         | 125               |
| 15   | Limestone                |                          | Gregg                       | 493       | 772.08125   | Harris County 2 | Sabine      |         | 175               |
| 16   | Madison                  |                          | Rapides                     | 513       | 772.20625   | Harris County 2 | Nacogdoches |         | 125               |
| 17   | Fayette                  |                          | Calcasieu                   | 537       | 772.35625   | Harris County 2 | Shelby      |         | 150               |
| 18   | Bastrop                  |                          | Harrison                    | 561       | 772.50625   | Harris County 2 | Sabine      | Trinity | 150               |
| 19   | Burl, Cald               | Goliad                   |                             | 585       | 772.65625   | Harris County 2 |             |         | 150               |
| 20   | Lee                      | Refug, Guad              |                             | 609       | 772.80625   | Harris County 2 | Sabine      |         | 150               |
| 21   | Milam                    |                          | Henderso n                  | 637       | 772.98125   | Harris County 2 | Angelina    |         | 175               |
| 22   | Travis                   |                          | Henderso n                  | 677       | 773.23125   | Harris County 2 |             |         | 250               |
| 23   | Bastrop                  |                          | Anderson                    | 741       | 773.63125   | Harris County 2 |             |         | 400               |
| 24   | Brazos                   | Dewitt                   | Anderson                    | 785       | 773.90625   | Harris County 2 |             |         | 275               |
| 25   | Brazos                   | Guadelup e               | Smith                       | 825       | 774.15625   | Harris County 2 |             |         | 250               |
| 26   | Travis                   |                          | Smith                       | 865       | 774.40625   | Harris County 2 |             |         | 250               |
| 27   | Travis                   | Victoria                 | Smith                       | 905       | 774.65625   | Harris County 2 | Houston     |         | 250               |
| 28   | Limestone, Travis        | Victoria                 | Smith                       | 945       | 774.90625   | Harris County 2 | Angelina    |         | 250               |

## 16.1.8. Harris County-3

| Harris County 3                               |                          |                          |                        |           |             |                 |                |                |                   |
|---|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                          |                          |                        | Region 51 |             |                 |                |                |                   |
| Region 49<br>Central Texas                    | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1   |                          | Vict, Guad               | Harrison               | 41        | 769.25625   | Harris County 3 | Tyler          |                |                   |
| 2   | Bastrop, Limestone       | Victoria                 | DeSoto, Allen          | 81        | 769.50625   | Harris County 3 | Tyler          |                | 250               |
| 3   |                          | Smith                    | Webster                | 125       | 769.78125   | Harris County 3 | Angelina       |                | 275               |
| 4   |                          |                          | Webster                | 165       | 770.03125   | Harris County 3 | Shelby         |                | 250               |
| 5   |                          | Henderson                | Sabine                 | 205       | 770.28125   | Harris County 3 |                | Trinity        | 250               |
| 6   | Caldwell                 |                          | Calcasieu              | 249       | 770.55625   | Harris County 3 | Shelby         |                | 275               |
| 7   | Fayette                  |                          | Rusk                   | 293       | 770.83125   | Harris County 3 |                |                | 275               |
| 8   | Fayette                  |                          | Beauregard, Grant      | 333       | 771.08125   | Harris County 3 | Trinity        |                | 250               |
| 9   |                          | Jackson                  | Webster, Allen         | 353       | 771.20625   | Harris County 3 | Nacogdoches    |                | 125               |
| 10  |                          | Upshur                   |                        | 381       | 771.38125   | Harris County 3 | Tyler          |                | 175               |
| 11  |                          | Victoria                 | Cameron, Natchitoches  | 401       | 771.50625   | Harris County 3 |                |                | 125               |
| 12  | Freestone, Travis        | Jackson                  | Harrison               | 425       | 771.65625   | Harris County 3 |                |                | 150               |
| 13  |                          | Smith                    | Webster, Vermilion     | 449       | 771.80625   | Harris County 3 | Houston        |                | 150               |
| 14  | Freestone                | Goliad                   | Marion                 | 469       | 771.93125   | Harris County 3 | Angelina       |                | 125               |
| 15  | Milam                    | Vict, Guad               | DeSoto, Allen          | 497       | 772.10625   | Harris County 3 |                |                | 175               |
| 16  | Caldwell                 | Refugio                  | Harrison               | 517       | 772.23125   | Harris County 3 | Tyler          |                | 125               |
| 17  | Freestone                |                          | Gregg                  | 541       | 772.38125   | Harris County 3 |                |                | 150               |
| 18  | Brazos                   |                          | Anderson               | 565       | 772.53125   | Harris County 3 |                | Orange         | 150               |
| 19  |                          | Lavaca                   | Marion                 | 589       | 772.68125   | Harris County 3 | Angelina       |                | 150               |
| 20  | Madison                  |                          | Panola                 | 613       | 772.83125   | Harris County 3 | Tyler          |                | 150               |
| 21  |                          | Calhoun                  | Anderson, Upshur       | 661       | 773.13125   | Harris County 3 | Jasper         |                | 300               |
| 22  | Madison                  | Gonz, Refug              | Navarro                | 701       | 773.38125   | Harris County 3 |                |                | 250               |
| 23  |                          | Dewitt                   | Gregg                  | 745       | 773.65625   | Harris County 3 | San Augustine  |                | 275               |
| 24  | Fayette                  |                          | Gregg                  | 789       | 773.93125   | Harris County 3 |                |                | 275               |
| 25  |                          |                          | Marion                 | 829       | 774.18125   | Harris County 3 | Nacogdoches    |                | 250               |
| 26  | Brazos                   | Refugio                  | Webster                | 869       | 774.43125   | Harris County 3 | Nacogdoches    |                | 250               |
| 27  | Brazos                   |                          | Navarro                | 909       | 774.68125   | Harris County 3 |                |                | 250               |

## 16.1.9. Harris County-4

| Harris County 4                               |                          |                          |                        |                      |             |                 |                 |                |                   |
|---|--------------------------|--------------------------|------------------------|----------------------|-------------|-----------------|-----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                          |                          |                        | Region 51            |             |                 |                 |                |                   |
| Region 49<br>Central Texas                    | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan                 | Center Freq | 1st Reuse       | Other Assigned  | Other Assigned | Freq Spread (kHz) |
| 1   |                          | Smith                    | Natchitoches           | 45                   | 769.28125   | Harris County 4 |                 | Orange         |                   |
| 2   |                          | Smith                    |                        | 85                   | 769.53125   | Harris County 4 | San Augustine   | Orange         | 250               |
| 3   | Brazos                   | Victoria                 | DeSoto                 | 129                  | 769.80625   | Harris County 4 |                 |                | 275               |
| 4   |                          | Guadalupe                | Harrison               | Calcasieu, Winn      | 169         | 770.05625       | Harris County 4 |                | 250               |
| 5   | Brazos                   |                          | Gregg                  | Calcasieu, Red River | 209         | 770.30625       | Harris County 4 |                | 250               |
| 6   | Brazos                   | Dewitt                   | Gregg                  | Natchitoches         | 253         | 770.58125       | Harris County 4 | Angelina       | 275               |
| 7   | Brazos                   | Dewitt                   | Henderson              | Calcasieu, Bossier   | 297         | 770.85625       | Harris County 4 |                | 275               |
| 8   | Travis                   | Dewitt                   | Rusk                   | Evangeline           | 337         | 771.10625       | Harris County 4 |                | 250               |
| 9   |                          | Victoria                 | Navarro                | Bienville, Rapides   | 361         | 771.25625       | Harris County 4 | Shelby         | Houston           |
| 10  | Limestone, Travis        | Lavaca                   | Rusk                   | Bossier              | 385         | 771.40625       | Harris County 4 |                | 150               |
| 11  | Milam                    |                          | Smith                  | Allen                | 405         | 771.53125       | Harris County 4 | Houston        | 125               |
| 12  | Madison                  | Gonzales                 |                        | DeSoto               | 429         | 771.68125       | Harris County 4 | Angelina       | 150               |
| 13  | Limestone                |                          |                        | Winn, Evangeline     | 453         | 771.83125       | Harris County 4 | Nacogdoches    | 150               |
| 14  | Travis                   | Lavaca                   | Anderson, Upshur       | Caddo, Rapides       | 477         | 771.98125       | Harris County 4 | Jasper         | 150               |
| 15  | Bastrop                  |                          | Rusk                   |                      | 501         | 772.13125       | Harris County 4 |                | 150               |
| 16  | Lee                      | Dewitt                   | Smith                  |                      | 521         | 772.25625       | Harris County 4 | Houston        | San Augustine     |
| 17  | Travis                   | Victoria                 | Navarro                | Winn, Evangeline     | 549         | 772.43125       | Harris County 4 |                | Jasper            |
| 18  | Lee                      |                          |                        | DeSoto               | 569         | 772.55625       | Harris County 4 |                | 125               |
| 19  | Milam, Freestone         |                          | Upshur                 | Sabine               | 597         | 772.73125       | Harris County 4 |                | 175               |
| 20  |                          | Dewitt                   | Cherokee               |                      | 617         | 772.85625       | Harris County 4 | Newton         | 125               |
| 21  |                          |                          | Panola                 | Vernon               | 665         | 773.15625       | Harris County 4 |                | 300               |
| 22  |                          |                          |                        | Calcasieu, Bossier   | 709         | 773.43125       | Harris County 4 | Houston        | 275               |
| 23  |                          | Victoria                 |                        | Caddo                | 753         | 773.70625       | Harris County 4 |                | 275               |
| 24  | Burleson                 | Victoria                 |                        | Caddo                | 793         | 773.95625       | Harris County 4 | Houston        | Jasper            |
| 25  |                          | Victoria                 | Gregg                  | Beauregard           | 833         | 774.20625       | Harris County 4 |                | 250               |
| 26  |                          | Lavaca                   | Gregg                  | Natchitoches         | 873         | 774.45625       | Harris County 4 | Tyler          | 250               |
| 27  |                          | Lavaca                   | Rusk                   | Beauregard           | 913         | 774.70625       | Harris County 4 |                | 250               |

## 16.1.10. Harris County-5

| Harris County 5                                      |                               |                             |                             |                        |           |                |                 |                   |                 |                         |
|--|-------------------------------|-----------------------------|-----------------------------|------------------------|-----------|----------------|-----------------|-------------------|-----------------|-------------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                               |                             |                             |                        | Region 51 |                |                 |                   |                 |                         |
|  | Region 49<br>Central<br>Texas | Region 53<br>South<br>Texas | Region 40<br>North<br>Texas | Region 18<br>Louisiana | Chan      | Center<br>Freq | 1st Reuse       | Other<br>Assigned | Other<br>Assgnd | Freq<br>Spread<br>(kHz) |
| 1  |                               |                             | Smith                       | Natchitoches           | 47        | 769.29375      | Harris County 5 |                   |                 |                         |
| 2  |                               |                             | Smith                       |                        | 87        | 769.54375      | Harris County 5 | Shelby            |                 | 250                     |
| 3  | Brazos                        | Victoria                    |                             | DeSoto                 | 131       | 769.81875      | Harris County 5 |                   | Orange          | 275                     |
| 4  |                               | Guadalupe                   | Harrison                    | Calcasieu, Winn        | 171       | 770.06875      | Harris County 5 |                   |                 | 250                     |
| 5  | Brazos                        |                             | Gregg                       | Calcasieu, Red River   | 211       | 770.31875      | Harris County 5 |                   |                 | 250                     |
| 6  | Brazos                        | Dewitt                      | Gregg                       | Natchitoches           | 255       | 770.59375      | Harris County 5 |                   |                 | 275                     |
| 7  | Brazos                        | Dewitt                      | Henderson                   | Calcasieu, Bossier     | 299       | 770.86875      | Harris County 5 |                   |                 | 275                     |
| 8  | Travis                        | Dewitt                      | Rusk                        | Evangeline             | 339       | 771.11875      | Harris County 5 |                   |                 | 250                     |
| 9  |                               | Victoria                    | Navarro                     | Bienville, Rapides     | 363       | 771.26875      | Harris County 5 | Nacogdoches       | Orange          | 150                     |
| 10   | Limestone, Travis             | Lavaca                      | Rusk                        | Bossier                | 387       | 771.41875      | Harris County 5 |                   |                 | 150                     |
| 11   | Milam                         |                             | Smith                       | Allen                  | 407       | 771.54375      | Harris County 5 |                   |                 | 125                     |
| 12   | Madison                       | Gonzales                    |                             | DeSoto                 | 431       | 771.69375      | Harris County 5 |                   |                 | 150                     |
| 13   | Limestone                     |                             |                             | Winn, Evangeline       | 455       | 771.84375      | Harris County 5 |                   |                 | 150                     |
| 14   | Travis                        | Lavaca                      | Anderson, Upshur            | Caddo, Rapides         | 479       | 771.99375      | Harris County 5 |                   |                 | 150                     |
| 15   | Bastrop                       |                             | Rusk                        |                        | 503       | 772.14375      | Harris County 5 |                   |                 | 150                     |
| 16   | Lee                           | Dewitt                      | Smith                       |                        | 523       | 772.26875      | Harris County 5 |                   |                 | 125                     |
| 17   | Travis                        | Victoria                    | Navarro                     | Winn, Evangeline       | 551       | 772.44375      | Harris County 5 |                   |                 | 175                     |
| 18   | Lee                           |                             |                             | DeSoto                 | 571       | 772.56875      | Harris County 5 |                   |                 | 125                     |
| 19   | Milam, Freestone              |                             | Upshur                      | Sabine                 | 599       | 772.74375      | Harris County 5 |                   |                 | 175                     |
| 20   |                               | Dewitt                      | Cherokee                    |                        | 619       | 772.86875      | Harris County 5 |                   |                 | 125                     |
| 21   |                               |                             | Panola                      | Vernon                 | 667       | 773.16875      | Harris County 5 |                   |                 | 300                     |
| 22   |                               |                             |                             | Calcasieu, Bossier     | 711       | 773.44375      | Harris County 5 | Nacogdoches       |                 | 275                     |
| 23   |                               | Victoria                    |                             | Caddo                  | 755       | 773.71875      | Harris County 5 |                   |                 | 275                     |
| 24   | Burleson                      | Victoria                    |                             | Caddo                  | 795       | 773.96875      | Harris County 5 |                   |                 | 250                     |
| 25   |                               | Victoria                    | Gregg                       | Beauregard             | 835       | 774.21875      | Harris County 5 |                   |                 | 250                     |
| 26   |                               | Lavaca                      | Gregg                       | Natchitoches           | 875       | 774.46875      | Harris County 5 |                   |                 | 250                     |
| 27   |                               | Lavaca                      | Rusk                        | Beauregard             | 915       | 774.71875      | Harris County 5 |                   |                 | 250                     |

## 16.1.11. Harris County-6

| Harris County 6                               |                            |                          |                          |                           |           |             |                 |                |                |                   |
|---|----------------------------|--------------------------|--------------------------|---------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                            |                          |                          |                           | Region 51 |             |                 |                |                |                   |
|   | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana    | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1   | Fayette, Freestone         |                          |                          | Beauregard, Caddo         | 49        | 769.30625   | Harris County 6 | Angelina       |                |                   |
| 2   | Fayette, Freestone         |                          | Marion                   | Grant                     | 89        | 769.55625   | Harris County 6 |                |                | 250               |
| 3   | Fayette                    |                          |                          | Vernon                    | 133       | 769.83125   | Harris County 6 | Nacogdoches    |                | 275               |
| 4   | Burleson                   | Dewitt                   | Smith                    | Rapides                   | 173       | 770.08125   | Harris County 6 | Houston        | Sabine         | 250               |
| 5   | Fayette                    |                          |                          | Rapides                   | 213       | 770.33125   | Harris County 6 | Shelby         |                | 250               |
| 6   | Travis                     | Calhoun                  | Henderson                | Bossier                   | 257       | 770.60625   | Harris County 6 |                | Orange         | 275               |
| 7   | Leon, Bast                 | Victoria                 | Panola                   | Bienville, Rapides        | 321       | 771.00625   | Harris County 6 |                | Orange         | 400               |
| 8   | Milam                      |                          |                          | Vernon, Bossier           | 341       | 771.13125   | Harris County 6 |                |                | 125               |
| 9   | Robertson                  | Gonzales                 | Smith                    | Vermilion                 | 365       | 771.28125   | Harris County 6 | Shelby         |                | 150               |
| 10  | Brazos                     |                          | Henderson                | Grant, Acadia             | 389       | 771.43125   | Harris County 6 | Angelina       |                | 150               |
| 11  |                            |                          | Marion                   | Red River                 | 409       | 771.55625   | Harris County 6 | Newton         |                | 125               |
| 12  | Leon, Caldwell             | Refugio                  | Upshur                   | Caddo                     | 437       | 771.73125   | Harris County 6 |                | Orange         | 175               |
| 13  |                            | Dewitt                   | Panola                   | Calcasieu                 | 457       | 771.85625   | Harris County 6 |                |                | 125               |
| 14  |                            | Jackson                  | Smith                    | Calcasieu, Bossier, Grant | 481       | 772.00625   | Harris County 6 | Angelina       |                | 150               |
| 15  | Brazos                     | Goliad                   | Anderson                 | Natchitoches, Acadia      | 505       | 772.15625   | Harris County 6 |                |                | 150               |
| 16  | Robertson                  |                          | Panola                   | Bienville                 | 525       | 772.28125   | Harris County 6 | Newton         |                | 125               |
| 17  | Milam                      | Gonzales                 | Upshur                   | Caddo, Vermilion          | 553       | 772.45625   | Harris County 6 |                |                | 175               |
| 18  | Robertson                  |                          | Smith                    | Jeff Davis                | 573       | 772.58125   | Harris County 6 | San Augustine  |                | 125               |
| 19  | Bastrop                    |                          |                          | Beauregard                | 601       | 772.75625   | Harris County 6 | Nacogdoches    |                | 175               |
| 20  | Burl, Caldwell             | Victoria                 | Smith                    | Vernon, Webster           | 625       | 772.90625   | Harris County 6 |                |                | 150               |
| 21  | Brazos                     |                          | Smith                    | Calcasieu                 | 669       | 773.18125   | Harris County 6 |                |                | 275               |
| 22  | Brazos, Caldwell           | Victoria                 | Harrison                 | Rapides                   | 713       | 773.45625   | Harris County 6 |                |                | 275               |
| 23  | Milam                      |                          | Smith                    | Cameron, Rapides          | 757       | 773.73125   | Harris County 6 | Sabine         |                | 275               |
| 24  | Travis                     |                          | Henderson                | Webster, Rapides          | 797       | 773.98125   | Harris County 6 | Shelby         |                | 250               |
| 25  | Fayette, Madison           |                          | Henderson                | Bossier                   | 837       | 774.23125   | Harris County 6 | Angelina       |                | 250               |
| 26  | Madison                    |                          | Cherokee                 | Bossier, Allen            | 877       | 774.48125   | Harris County 6 | Sabine         |                | 250               |
| 27  |                            | Calhoun, Guadalupe       | Henderson                | Bossier, Grant            | 917       | 774.73125   | Harris County 6 | Sabine         | Trinity        | 250               |



## 16.1.12. Harris County-7

The Harris County-7 group is the remaining central assignment of frequencies that may be available for other areas if the 1 thru 6 grouping is sufficient for the central area of Region 51.

| Harris County 7                               |                            |                          |                          |                             |           |             |                 |                |             |                   |
|---|----------------------------|--------------------------|--------------------------|-----------------------------|-----------|-------------|-----------------|----------------|-------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                            |                          |                          |                             | Region 51 |             |                 |                |             |                   |
|   | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana      | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Asgnd | Freq Spread (kHz) |
| 1   |                            | Vict, Guad               | Harrison                 |                             | 43        | 769.26875   | Harris County 7 |                |             |                   |
| 2   | Brazos                     | Lavaca                   | Rusk                     | Calcasieu, Bossier, Rapides | 59        | 769.36875   | Harris County 7 |                |             | 100               |
| 3   | Fayette, Freestone         |                          | Marion                   | Grant                       | 91        | 769.56875   | Harris County 7 |                |             | 200               |
| 4   | Burleson                   | Dewitt                   | Smith                    | Rapides                     | 175       | 770.09375   | Harris County 7 | Shelby         |             | 525               |
| 5   | Milam                      |                          |                          | Vernon, Bossier             | 343       | 771.14375   | Harris County 7 | Nacogdoches    |             | 1050              |
| 6   | Burleson                   | Calh, Guad               | Cherokee                 | Winn                        | 375       | 771.34375   | Harris County 7 |                |             | 200               |
| 7   | Brazos                     |                          | Henderson                | Grant, Acadia               | 391       | 771.44375   | Harris County 7 |                | Polk        | 100               |
| 8   | Robsn, Bast                | Victoria                 |                          | Beauregard                  | 447       | 771.79375   | Harris County 7 | Nacogdoches    |             | 350               |
| 9   | Madison                    |                          |                          | Rapides                     | 515       | 772.21875   | Harris County 7 |                |             | 425               |
| 10  | Lee                        | Refug, Guad              | Anderson                 | Acadia                      | 611       | 772.81875   | Harris County 7 |                |             | 600               |
| 11  | Burl, Cald                 | Victoria                 | Smith                    | Vernon, Webster             | 627       | 772.91875   | Harris County 7 | Trinity        |             | 100               |
| 12  |                            | Dewitt                   | Gregg                    | Red River, Evangeline       | 747       | 773.66875   | Harris County 7 |                | San Jacinto | 750               |
| 13  | Brazos                     | Dewitt                   | Anderson                 | Vernon, Bossier             | 787       | 773.91875   | Harris County 7 |                |             | 250               |
| 14  | Fayette, Madison           |                          | Henderson                | Bossier                     | 839       | 774.24375   | Harris County 7 |                |             | 325               |
| 15  | Madison                    |                          | Cherokee                 | Bossier, Allen              | 879       | 774.49375   | Harris County 7 |                |             | 250               |

## 16.1.13. Fort Bend County

|    | Fort Bend County                                     |                             |                             |                               |           |                |              |                   |                 |                         |
|----|--|-----------------------------|-----------------------------|-------------------------------|-----------|----------------|--------------|-------------------|-----------------|-------------------------|
|    | Adjacent Regions' <i>Original</i> CAPRAD Assignments |                             |                             |                               | Region 51 |                |              |                   |                 |                         |
|    | Region 49<br>Central<br>Texas                        | Region 53<br>South<br>Texas | Region 40<br>North<br>Texas | Region 18<br>Louisiana        | Chan      | Center<br>Freq | 1st<br>Reuse | Other<br>Assigned | Other<br>Assgnd | Freq<br>Spread<br>(kHz) |
| 1  |  |                             | Navarro,<br>Gregg           | Calcasieu,<br>Bossier,Rapides | 19        | 769.11875      | Fort<br>Bend | San Jacinto       |                 |                         |
| 2  | Travis   | Calhoun                     | Upshur                      | Sabine                        | 55        | 769.34375      | Fort<br>Bend |                   | Walker          | 225                     |
| 3  | Leon   |                             |                             | Calcasieu,<br>Caddo,Rapides   | 123       | 769.76875      | Fort<br>Bend |                   |                 | 425                     |
| 4  | Robsn, Bast  |                             | Cherokee                    | Caddo,Grant                   | 163       | 770.01875      | Fort<br>Bend |                   | Hardin          | 250                     |
| 5  |  |                             | Henderson                   | Sabine                        | 207       | 770.29375      | Fort<br>Bend |                   | Hardin          | 275                     |
| 6  |  | Gonzales                    | Smith                       | Vernon, Caddo                 | 243       | 770.51875      | Fort<br>Bend |                   | Hardin          | 225                     |
| 7  |  |                             | Navarro                     | Caddo,Acadia                  | 291       | 770.81875      | Fort<br>Bend |                   | Hardin          | 300                     |
| 8  |  | Guadalupe                   | Smith                       | Jeff Davis, Sabine            | 327       | 771.04375      | Fort<br>Bend |                   |                 | 225                     |
| 9  | Robertson  | Gonzales                    | Smith                       | Vermilion                     | 367       | 771.29375      | Fort<br>Bend |                   | Hardin          | 250                     |
| 10 | Lee  | Dewitt                      | Panola                      | Vernon                        | 395       | 771.46875      | Fort<br>Bend |                   | Hardin          | 175                     |
| 11 |  |                             | Cherokee                    |                               | 423       | 771.64375      | Fort<br>Bend |                   | Hardin          | 175                     |
| 12 |  |                             | Smith                       | Webster, Vermilion            | 451       | 771.81875      | Fort<br>Bend |                   | Hardin          | 175                     |
| 13 |  | Calhoun,<br>Gonzales        | Henderson                   | Beauregard, Red<br>River      | 491       | 772.06875      | Fort<br>Bend |                   | Walker          | 250                     |
| 14 | Caldwell   | Refugio                     | Harrison                    | Jeff Davis                    | 519       | 772.24375      | Fort<br>Bend |                   | Hardin          | 175                     |
| 15 | Milam  | Gonzales                    | Upshur                      | Caddo, Vermilion              | 555       | 772.46875      | Fort<br>Bend |                   | Hardin          | 225                     |
| 16 | Burl, Cald   | Goliad                      |                             | Bossier, Cameron,<br>Vernon   | 587       | 772.66875      | Fort<br>Bend | Nacogdoches       |                 | 200                     |
| 17 | Madison  |                             | Panola                      | Bienville,Rapides             | 615       | 772.84375      | Fort<br>Bend |                   |                 | 175                     |
| 18 |  | Calhoun                     | Anderson,<br>Upshur         | Bienville                     | 663       | 773.14375      | Fort<br>Bend |                   |                 | 300                     |
| 19 | Madison  | Gonz, Refug                 | Navarro                     | Beauregard, Bienville         | 703       | 773.39375      | Fort<br>Bend |                   |                 | 250                     |
| 20 | Bastrop  |                             | Anderson                    | Vernon, Vermilion             | 743       | 773.64375      | Fort<br>Bend |                   |                 | 250                     |
| 21 | Limestone  | Guadalupe                   | Harrison                    | Winn, Acadia                  | 783       | 773.89375      | Fort<br>Bend |                   | Polk            | 250                     |
| 22 | Bastrop  |                             | Harrison,<br>Navarro        | Natchitoches                  | 823       | 774.14375      | Fort<br>Bend |                   | Walker          | 250                     |
| 23 | Milam,Freeston<br>e                                  | Gonzales                    |                             | Caddo,Acadia                  | 863       | 774.39375      | Fort<br>Bend |                   |                 | 250                     |
| 24 |  | Gonzales                    |                             | Caddo                         | 903       | 774.64375      | Fort<br>Bend |                   | Walker          | 250                     |
| 25 |  |                             |                             | Caddo                         | 943       | 774.89375      | Fort<br>Bend |                   | Walker          | 250                     |

## 16.1.14. Galveston County

| Galveston County                              |                            |                          |                          |                            |           |             |           |                |              |                   |
|---|----------------------------|--------------------------|--------------------------|----------------------------|-----------|-------------|-----------|----------------|--------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                            |                          |                          |                            | Region 51 |             |           |                |              |                   |
|   | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana     | Chan      | Center Freq | 1st Reuse | Other Assigned | Other Assgnd | Freq Spread (kHz) |
| 1   | Fayette, Freestone         |                          |                          | Beauregard, Caddo          | 51        | 769.31875   | Galveston |                | Polk         |                   |
| 2   | Washington                 | Guadalupe                | Anderson, Harrison       | Jeff Davis, Winn           | 97        | 769.60625   | Galveston |                | Polk         | 287.5             |
| 3   | Grimes, Travis             | Jackson                  | Cherokee                 | Bossier, Acadia            | 217       | 770.35625   | Galveston |                |              | 750               |
| 4   | Leon                       | Lavaca                   | Harrison                 | Rapides, Vermilion         | 283       | 770.76875   | Galveston |                |              | 412.5             |
| 5   | Fayette                    |                          |                          | Beauregard, Grant          | 335       | 771.09375   | Galveston | Shelby         | Walker       | 325               |
| 6   | Grimes                     | Goliad                   |                          | Calcasieu, Caddo           | 369       | 771.30625   | Galveston |                |              | 212.5             |
| 7   |                            | Victoria                 |                          | Cameron, Natchitoches      | 403       | 771.51875   | Galveston | Nacogdoches    | Walker       | 212.5             |
| 8   | Washington                 |                          | Rusk, Navarro            | Rapides                    | 433       | 771.70625   | Galveston |                | Polk         | 187.5             |
| 9   | Lee                        |                          | Cherokee                 | Vernon, Bossier            | 463       | 771.89375   | Galveston |                |              | 187.5             |
| 10  | Brazos                     | Goliad                   | Anderson                 | Natchitoches, Acadia       | 507       | 772.16875   | Galveston |                |              | 275               |
| 11  | Burleson                   |                          |                          | Vernon, Bossier            | 535       | 772.34375   | Galveston |                | Polk         | 175               |
| 12  | Robertson                  |                          | Smith                    | Jeff Davis                 | 575       | 772.59375   | Galveston |                | Polk         | 250               |
| 13  | Brazos                     |                          | Gregg                    | Natchitoches               | 607       | 772.79375   | Galveston |                | Polk         | 200               |
| 14  | Wash, Leon, Travis         |                          | Rusk                     | Winn                       | 635       | 772.96875   | Galveston |                |              | 175               |
| 15  | Washington                 |                          | Gregg                    | Evangeline                 | 707       | 773.41875   | Galveston |                | Orange       | 450               |
| 16  | Grimes                     |                          | Cherokee                 | Calcasieu, Sabine, Webster | 749       | 773.68125   | Galveston | Colorado       |              | 262.5             |
| 17  | Fayette                    |                          | Gregg                    | Calcasieu                  | 791       | 773.94375   | Galveston |                | Walker       | 262.5             |

## 16.1.15. Montgomery County

The close proximity of some of the Montgomery County assignments will require the use of multiple combiners which would be of necessity, nevertheless, due the quantity of channels involved.

| Montgomery County                             |                            |                          |                          |                           |           |             |            |                |              |                   |
|---|----------------------------|--------------------------|--------------------------|---------------------------|-----------|-------------|------------|----------------|--------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                            |                          |                          |                           | Region 51 |             |            |                |              |                   |
|   | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana    | Chan      | Center Freq | 1st Reuse  | Other Assigned | Other Assgnd | Freq Spread (kHz) |
| 1   | Travis                     | Jackson                  |                          | Vernon, Red River         | 95        | 769.59375   | Montgomery | Matagorda      |              |                   |
| 2   | Travis                     |                          | Anderson                 | Bossier, Evangeline       | 139       | 769.86875   | Montgomery |                |              | 275               |
| 3   | Travis                     |                          |                          | Jeff Davis, Bossier       | 179       | 770.11875   | Montgomery |                | Orange       | 250               |
| 4   | Caldwell                   |                          |                          | Calcasieu                 | 251       | 770.56875   | Montgomery | Nacogdoches    |              | 450               |
| 5   | Freestone                  |                          |                          | Caddo                     | 331       | 771.06875   | Montgomery | Wharton        |              | 500               |
| 6   |                            |                          |                          | Webster                   | 399       | 771.49375   | Montgomery |                |              | 425               |
| 7   | Freestone, Travis          | Jackson                  | Harrison                 | Jeff Davis                | 427       | 771.66875   | Montgomery |                |              | 175               |
| 8   |                            | Dewitt                   | Panola                   | Calcasieu                 | 459       | 771.86875   | Montgomery | Matagorda      |              | 200               |
| 9   |                            | Jackson                  | Smith                    | Calcasieu, Bossier, Grant | 483       | 772.01875   | Montgomery | Matagorda      |              | 150               |
| 10  | Limestone                  |                          | Gregg                    |                           | 495       | 772.09375   | Montgomery |                |              | 75                |
| 11  | Travis                     | Lavaca                   | Upshur                   | Caddo                     | 511       | 772.19375   | Montgomery | Matagorda      | Orange       | 100               |
| 12  | Freestone                  |                          | Gregg                    | Red River                 | 543       | 772.39375   | Montgomery | Wharton        |              | 200               |
| 13  | Bastrop                    |                          | Harrison                 | Acadia                    | 563       | 772.51875   | Montgomery | Matagorda      |              | 125               |
| 14  |                            |                          |                          | Webster, Grant            | 579       | 772.61875   | Montgomery |                |              | 100               |
| 15  |                            | Lavaca                   | Marion                   |                           | 591       | 772.69375   | Montgomery |                |              | 75                |
| 16  | Milam                      |                          | Henderson                | Bossier, Vermilion        | 639       | 772.99375   | Montgomery | Wharton        |              | 300               |
| 17  |                            | Vict, Guad               |                          | Webster, Rapides          | 675       | 773.21875   | Montgomery |                |              | 225               |
| 18  | Travis                     |                          | Henderson                | Jeff Davis, Caddo         | 679       | 773.24375   | Montgomery |                |              | 25                |
| 19  | Milam                      |                          | Smith                    | Cameron, Rapides          | 759       | 773.74375   | Montgomery |                |              | 500               |
| 20  | Travis                     |                          | Henderson                | Webster, Rapides          | 799       | 773.99375   | Montgomery |                |              | 250               |
| 21  |                            |                          | Marion                   | Red River                 | 831       | 774.19375   | Montgomery |                | Orange       | 200               |
| 22  | Travis                     |                          | Smith                    | Calcasieu, Rapides        | 867       | 774.41875   | Montgomery | Shelby         |              | 225               |
| 23  | Travis                     | Victoria                 | Smith                    | Calcasieu, Rapides        | 907       | 774.66875   | Montgomery | Shelby         |              | 250               |
| 24  |                            | Calh, Guad               | Henderson                | Bossier, Grant            | 919       | 774.74375   | Montgomery |                | Orange       | 75                |
| 25  | Limestone, Travis          | Victoria                 | Smith                    | Calcasieu, Rapides        | 947       | 774.91875   | Montgomery | Shelby         |              | 175               |

## 16.1.16. Brazoria County

| Brazoria County                               |                          |                          |                        |           |             |           |                |                |                   |
|---|--------------------------|--------------------------|------------------------|-----------|-------------|-----------|----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                          |                          |                        | Region 51 |             |           |                |                |                   |
| Region 49<br>Central Texas                    | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1   | Brazos                   |                          | Cherokee               | 15        | 769.09375   |           | Brazoria       | Tyler          |                   |
| 2   | Bastrop,Limestone        | Victoria                 |                        | 83        | 769.51875   |           | Brazoria       | San Jacinto    | 425               |
| 3   | Robsn, Bast, Limestone   | Victoria                 |                        | 203       | 770.26875   |           | Brazoria       | San Jacinto    | 750               |
| 4   | Washington               |                          | Smith                  | 287       | 770.79375   | Jefferson | Brazoria       |                | 525               |
| 5   | Leon, Bast               | Victoria                 | Panola                 | 323       | 771.01875   |           | Brazoria       |                | 225               |
| 6   | Brazos                   |                          | Anderson               | 351       | 771.19375   |           | Brazoria       |                | 175               |
| 7   | Washington               |                          | Harrison               | 359       | 771.24375   | Jefferson | Brazoria       |                | 50                |
| 8   | Leon, Caldwl             | Refugio                  | Upshur                 | 439       | 771.74375   |           | Brazoria       |                | 500               |
| 9   | Freestone                | Goliad                   | Marion                 | 471       | 771.94375   |           | Brazoria       | San Jacinto    | 200               |
| 10  | Wash, Leon               |                          | Panola                 | 485       | 772.03125   | Jefferson | Brazoria       |                | 87.5              |
| 11  | Milam                    | Vict, Guad               |                        | 499       | 772.11875   |           | Brazoria       | San Jacinto    | 87.5              |
| 12  | Robertson                |                          | Panola                 | 527       | 772.29375   |           | Brazoria       | San Jacinto    | 175               |
| 13  | Leon                     |                          |                        | 559       | 772.49375   |           | Brazoria       |                | 200               |
| 14  | Brazos                   |                          | Anderson               | 567       | 772.54375   | Jefferson | Brazoria       |                | 50                |
| 15  | Washington, Travis       | Calhoun                  | Rusk                   | 595       | 772.71875   | Jefferson | Brazoria       |                | 175               |
| 16  | Grimes,Limestone         |                          | Harrison               | 621       | 772.88125   | Jefferson | Brazoria       | San Augustine  | 162.5             |
| 17  | Grimes,Limestone         |                          | Harrison               | 623       | 772.89375   | Jefferson | Brazoria       |                | 12.5              |
| 18  | Brazos                   |                          | Smith                  | 671       | 773.19375   |           | Brazoria       | Polk           | 300               |
| 19  | Washington               |                          | Gregg                  | 705       | 773.40625   | Jefferson | Brazoria       |                | 212.5             |
| 20  | Brazos, Cald             | Victoria                 | Harrison               | 715       | 773.46875   |           | Brazoria       |                | 62.5              |
| 21  | Brazos                   | Guadalupe                | Smith                  | 827       | 774.16875   | Jefferson | Brazoria       |                | 700               |
| 22  | Brazos                   | Refugio                  |                        | 871       | 774.44375   | Jefferson | Brazoria       |                | 275               |

## 16.1.17. Austin County

| Austin County                                 |                          |                          |                        |           |             |           |                |                |                   |
|---|--------------------------|--------------------------|------------------------|-----------|-------------|-----------|----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                          |                          |                        | Region 51 |             |           |                |                |                   |
| Region 49<br>Central Texas                    | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1   | Travis                   | Calhoun                  | Henderson              | 259       | 770.61875   | Jefferson | Austin         |                |                   |
| 2   |                          | Calhoun                  | Anderson,              | 415       | 771.59375   | Jefferson | Austin         |                | 975               |
| 3   |                          |                          | Henderson              | 443       | 771.76875   | Jefferson | Austin         |                | 175               |

### 16.1.18. Colorado County

| Colorado County                                      |                            |                          |                          |                            |           |             |           |                |                |                   |
|--|----------------------------|--------------------------|--------------------------|----------------------------|-----------|-------------|-----------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                            |                          |                          |                            | Region 51 |             |           |                |                |                   |
|  | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana     | Chan      | Center Freq | 1st Reuse | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  | Fayette                    |                          |                          | Vernon                     | 135       | 769.84375   | Jefferson | Colorado       |                |                   |
| 2  | Grimes                     |                          | Cherokee                 | Calcasieu, Sabine, Webster | 749       | 773.68125   | Galveston | Colorado       |                | 3837.5            |
| 3  | Brazos                     |                          | Navarro                  | DeSoto, Acadia             | 911       | 774.69375   | Jefferson | Colorado       |                | 1012.5            |

### 16.1.19. Liberty County

| Liberty County                                       |                            |                          |                          |                        |           |             |           |                |                |                   |
|--|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |           |                |                |                   |
|  | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  | Washington                 | Guadalupe                | Anderson, Harrison       | Jeff Davis, Winn       | 99        | 769.61875   | Liberty   | Wharton        |                |                   |
| 2  | Washington                 |                          | Smith                    | Sabine                 | 285       | 770.78125   | Liberty   |                |                | 1162.5            |
| 3  | Caldwell                   |                          | Gregg                    | Acadia                 | 347       | 771.16875   | Liberty   |                |                | 387.5             |
| 4  | Leon, Bast                 |                          |                          | Beauregard, Desoto     | 379       | 771.36875   | Liberty   |                |                | 200               |
| 5  | Washington                 |                          | Rusk, Navarro            | Rapides                | 435       | 771.71875   | Liberty   |                |                | 350               |
| 6  | Brazos                     | Calh, Guad               | Gregg                    | Jeff Davis             | 467       | 771.91875   | Liberty   |                |                | 200               |
| 7  | Washington                 | Guadalupe                | Cherokee                 | Cameron, Sabine        | 545       | 772.40625   | Liberty   | Wharton        |                | 487.5             |
| 8  | Washington, Travis         | Calhoun                  | Rusk                     | Red River, Allen       | 593       | 772.70625   | Liberty   |                |                | 300               |

### 16.1.20. Matagorda County

| Matagorda County                                     |                            |                          |                          |                           |           |             |            |                |                |                   |
|--|----------------------------|--------------------------|--------------------------|---------------------------|-----------|-------------|------------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                            |                          |                          |                           | Region 51 |             |            |                |                |                   |
|  | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana    | Chan      | Center Freq | 1st Reuse  | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  | Travis                     | Jackson                  |                          | Vernon, Red River         | 95        | 769.59375   | Montgomery | Matagorda      |                |                   |
| 2  |                            | Dewitt                   | Panola                   | Calcasieu                 | 459       | 771.86875   | Montgomery | Matagorda      |                | 2275              |
| 3  |                            | Jackson                  | Smith                    | Calcasieu, Bossier, Grant | 483       | 772.01875   | Montgomery | Matagorda      |                | 150               |
| 4  | Travis                     | Lavaca                   | Upshur                   | Caddo                     | 511       | 772.19375   | Montgomery | Matagorda      | Orange         | 175               |
| 5  | Bastrop                    |                          | Harrison                 | Acadia                    | 563       | 772.51875   | Montgomery | Matagorda      |                | 325               |

### 16.1.21. Waller County

| Waller County  |                          |                          |                        |           |             |           |                |                |                   |
|--|--------------------------|--------------------------|------------------------|-----------|-------------|-----------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                          |                          |                        | Region 51 |             |           |                |                |                   |
| Region 49<br>Central Texas                           | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  |                          |                          | Webster                | 167       | 770.04375   | Waller    | Nacogdoches    |                |                   |
| 2  |                          | Upshur                   |                        | 383       | 771.39375   | Waller    | Shelby         |                | 1350              |
| 3  |                          | Marion                   | Red River              | 411       | 771.56875   | Waller    |                |                | 175               |
| 4  |                          | Navarro                  | Calcasieu, Caddo       | 631       | 772.94375   | Waller    |                |                | 1375              |

### 16.1.22. Wharton County

| Wharton County                                       |                          |                          |                        |           |             |            |                |                |                   |
|--|--------------------------|--------------------------|------------------------|-----------|-------------|------------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                          |                          |                        | Region 51 |             |            |                |                |                   |
| Region 49<br>Central Texas                           | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse  | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  | Washington               | Guadalupe                | Anderson, Harrison     | 99        | 769.61875   | Liberty    | Wharton        |                |                   |
| 2  | Freestone                |                          | Caddo                  | 331       | 771.06875   | Montgomery | Wharton        |                | 1450              |
| 3  | Freestone                | Gregg                    | Red River              | 543       | 772.39375   | Montgomery | Wharton        |                | 1325              |
| 4  |                          |                          | Webster, Grant         | 579       | 772.61875   | Montgomery | Wharton        |                | 225               |
| 5  | Milam                    | Henderson                | Bossier, Vermillion    | 639       | 772.99375   | Montgomery | Wharton        |                | 375               |

## 16.1.23. Jefferson County

The Jefferson County group will also require a minimum of three combiners to accommodate the close proximity of channels.

| Jefferson County                                     |                          |                          |                        |                   |             |           |                |                |                        |
|--|--------------------------|--------------------------|------------------------|-------------------|-------------|-----------|----------------|----------------|------------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                          |                          |                        | Region 51         |             |           |                |                |                        |
| Region 49<br>Central Texas                           | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan              | Center Freq | 1st Reuse | Other Assigned | Other Assigned | Freq Spread (kHz)      |
| 1  | Fayette                  |                          | Vernon                 | 135               | 769.84375   | Jefferson | Colorado       |                |                        |
| 2  | Grimes, Travis           | Jackson                  | Cherokee               | Bossier,Acadia    | 219         | 770.36875 | Jefferson      |                | 525                    |
| 3  | Travis                   | Calhoun                  | Henderson              | Bossier           | 259         | 770.61875 | Jefferson      | Austin         | 250                    |
| 4  | Washington               |                          | Smith                  | Sabine            | 287         | 770.79375 | Jefferson      | Brazoria       | 175                    |
| 5  | Washington               |                          | Harrison               |                   | 359         | 771.24375 | Jefferson      | Brazoria       | 450                    |
| 6  |                          | Calhoun                  | Anderson,              | Winn,Evangeline   | 415         | 771.59375 | Jefferson      | Austin         | 350                    |
| 7  |                          |                          | Henderson              | Grant,Acadia      | 443         | 771.76875 | Jefferson      | Austin         | 175                    |
| 8  | Wash, Leon               |                          | Panola                 |                   | 485         | 772.03125 | Jefferson      | Brazoria       | 262.5                  |
| 9  | Grimes                   | Jackson                  | Henderson              | Grant             | 529         | 772.30625 | Jefferson      | Angelina       | 275                    |
| 10   | Grimes                   | Jackson                  | Henderson              | Grant             | 531         | 772.31875 | Jefferson      |                | 12.5                   |
| 11   | Brazos                   |                          | Anderson               | Bienville,Rapides | 567         | 772.54375 | Jefferson      | Brazoria       | 225                    |
| 12   | Grimes,Limestone         | Jackson                  |                        |                   | 581         | 772.63125 | Jefferson      | Shelby         | 87.5                   |
| 13   | Grimes,Limestone         | Jackson                  |                        |                   | 583         | 772.64375 | Jefferson      |                | 12.5                   |
| 14   | Washington, Travis       | Calhoun                  | Rusk                   | Red River,Allen   | 595         | 772.71875 | Jefferson      | Brazoria       | 75                     |
| 15   | Grimes,Limestone         |                          | Harrison               | Evangeline        | 621         | 772.88125 | Jefferson      | Brazoria       | San Augustine<br>162.5 |
| 16   | Grimes,Limestone         |                          | Harrison               | Evangeline        | 623         | 772.89375 | Jefferson      | Brazoria       | 12.5                   |
| 17   | Washington               |                          | Gregg                  | Evangeline        | 705         | 773.40625 | Jefferson      | Brazoria       | 512.5                  |
| 18   | Brazos                   | Guadalupe                | Smith                  | Allen             | 827         | 774.16875 | Jefferson      | Brazoria       | 762.5                  |
| 19   | Brazos                   | Refugio                  |                        | Webster           | 871         | 774.44375 | Jefferson      | Brazoria       | 275                    |
| 20   | Brazos                   |                          | Navarro                | DeSoto,Acadia     | 911         | 774.69375 | Jefferson      | Colorado       | 250                    |



### 16.1.24. Chambers County

| Chambers County                                      |                          |                          |                        |           |             |           |                |                |                   |
|--|--------------------------|--------------------------|------------------------|-----------|-------------|-----------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                          |                          |                        | Region 51 |             |           |                |                |                   |
| Region 49<br>Central Texas                           | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  | Washington               | Harrison                 |                        | 357       | 771.23125   | Chambers  |                |                |                   |
| 2  | Wash, Leon               | Panola                   |                        | 487       | 772.04375   | Chambers  |                |                | 812.5             |
| 3  | Wash, Leon, Travis       | Rusk                     | Winn                   | 633       | 772.95625   | Chambers  |                |                | 912.5             |

### 16.1.25. Angelina County

| Angelina County                                      |                          |                          |                        |           |             |                 |                |                |                   |
|--|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                          |                          |                        | Region 51 |             |                 |                |                |                   |
| Region 49<br>Central Texas                           | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  | Fayette, Freestone       |                          | Beauregard, Caddo      | 49        | 769.30625   | Harris County 6 | Angelina       |                |                   |
| 2  |                          | Smith                    | Webster                | 125       | 769.78125   | Harris County 3 | Angelina       |                | 475               |
| 3  | Robsn, Bast, Limestone   | Victoria                 | Caddo, Vermilion       | 201       | 770.25625   | Harris County 2 | Angelina       |                | 475               |
| 4  | Brazos                   | Dewitt                   | Gregg                  | 253       | 770.58125   | Harris County 4 | Angelina       |                | 325               |
| 5  | Caldwell                 | Gregg                    | Acadia                 | 345       | 771.15625   | Harris County 1 | Angelina       |                | 575               |
| 6  | Brazos                   | Henderson                | Grant, Acadia          | 389       | 771.43125   | Harris County 6 | Angelina       |                | 275               |
| 7  | Madison                  | Gonzales                 | DeSoto                 | 429       | 771.68125   | Harris County 4 | Angelina       |                | 250               |
| 8  | Freestone                | Goliad                   | Marion                 | 469       | 771.93125   | Harris County 3 | Angelina       |                | 250               |
| 9  |                          | Jackson                  | Smith                  | 481       | 772.00625   | Harris County 6 | Angelina       |                | 75                |
| 10   | Grimes                   | Jackson                  | Henderson              | 529       | 772.30625   | Jefferson       | Angelina       |                | 300               |
| 11   |                          | Lavaca                   | Marion                 | 589       | 772.68125   | Harris County 3 | Angelina       |                | 375               |
| 12   | Milam                    | Henderson                | Bossier, Vermilion     | 637       | 772.98125   | Harris County 2 | Angelina       |                | 300               |
| 13   | Lee                      | Smith                    | Jeff Davis, DeSoto     | 717       | 773.48125   | Harris County 1 | Angelina       |                | 500               |
| 14   | Limestone                | Guadalupe                | Harrison               | 781       | 773.88125   | Harris County 1 | Angelina       | Orange         | 400               |
| 15   | Fayette, Madison         | Henderson                | Bossier                | 837       | 774.23125   | Harris County 6 | Angelina       |                | 350               |
| 16   | Limestone, Travis        | Victoria                 | Smith                  | 945       | 774.90625   | Harris County 2 | Angelina       |                | 675               |

## 16.1.26. Hardin County

| Hardin County  |                            |                          |                          |                        |           |             |           |                |                |                   |
|--|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |           |                |                |                   |
|  | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  | Robsn, Bast                |                          | Cherokee                 | Caddo, Grant           | 163       | 770.01875   | Fort Bend |                | Hardin         |                   |
| 2  |                            |                          | Henderson                | Sabine                 | 207       | 770.29375   | Fort Bend |                | Hardin         | 275               |
| 3  |                            | Gonzales                 | Smith                    | Vernon, Caddo          | 243       | 770.51875   | Fort Bend |                | Hardin         | 225               |
| 4  |                            |                          | Navarro                  | Caddo, Acadia          | 291       | 770.81875   | Fort Bend |                | Hardin         | 300               |
| 5  | Robertson                  | Gonzales                 | Smith                    | Vermilion              | 367       | 771.29375   | Fort Bend |                | Hardin         | 475               |
| 6  | Lee                        | Dewitt                   | Panola                   | Vernon                 | 395       | 771.46875   | Fort Bend |                | Hardin         | 175               |
| 7  |                            |                          | Cherokee                 |                        | 423       | 771.64375   | Fort Bend |                | Hardin         | 175               |
| 8  |                            |                          | Smith                    | Webster, Vermilion     | 451       | 771.81875   | Fort Bend |                | Hardin         | 175               |
| 9  | Caldwell                   | Refugio                  | Harrison                 | Jeff Davis             | 519       | 772.24375   | Fort Bend |                | Hardin         | 425               |
| 10   | Milam                      | Gonzales                 | Upshur                   | Caddo, Vermilion       | 555       | 772.46875   | Fort Bend |                | Hardin         | 225               |

## 16.1.27. Houston County

| Houston County                                       |                            |                          |                          |                        |           |             |                 |                |                |                   |
|--|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |                 |                |                |                   |
|  | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  | Burleson                   | Dewitt                   | Smith                    | Rapides                | 173       | 770.08125   | Harris County 6 | Houston        | Sabine         |                   |
| 2  |                            | Gonzales                 | Smith                    | Vernon, Caddo          | 241       | 770.50625   | Harris County 1 | Houston        |                | 425               |
| 3  |                            | Victoria                 | Navarro                  | Bienville, Rapides     | 361       | 771.25625   | Harris County 4 | Shelby         | Houston        | 750               |
| 4  | Milam                      |                          | Smith                    | Allen                  | 405       | 771.53125   | Harris County 4 | Houston        |                | 275               |
| 5  |                            |                          | Smith                    | Webster, Vermilion     | 449       | 771.80625   | Harris County 3 | Houston        |                | 275               |
| 6  | Lee                        | Dewitt                   | Smith                    |                        | 521       | 772.25625   | Harris County 4 | Houston        | San Augustine  | 450               |
| 7  |                            |                          |                          | Webster, Grant         | 577       | 772.60625   | Harris County 1 | Houston        | Newton         | 350               |
| 8  |                            |                          |                          | Calcasieu, Bossier     | 709       | 773.43125   | Harris County 4 | Houston        |                | 825               |
| 9  | Burleson                   | Victoria                 |                          | Caddo                  | 793       | 773.95625   | Harris County 4 | Houston        | Jasper         | 525               |
| 10   | Travis                     | Victoria                 | Smith                    | Calcasieu, Rapides     | 905       | 774.65625   | Harris County 2 | Houston        |                | 700               |

## 16.1.28. Jasper County

| Jasper County  |                            |                          |                          |                        |      |             |                 |                |                   |
|--|----------------------------|--------------------------|--------------------------|------------------------|------|-------------|-----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                            |                          |                          | Region 51              |      |             |                 |                |                   |
|  | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan | Center Freq | 1st Reuse       | Other Assigned | Freq Spread (kHz) |
| 1  | Burleson                   | Calh, Guad               | Cherokee                 | Winn                   | 373  | 771.33125   | Harris County 1 | Jasper         |                   |
| 2  |                            |                          | Cherokee                 |                        | 421  | 771.63125   | Harris County 2 | Jasper         | 300               |
| 3  | Travis                     | Lavaca                   | Anderson, Upshur         | Caddo, Rapides         | 477  | 771.98125   | Harris County 4 | Jasper         | 350               |
| 4  | Travis                     | Victoria                 | Navarro                  | Winn, Evangeline       | 549  | 772.43125   | Harris County 4 | Jasper         | 450               |
| 5  |                            | Calhoun                  | Anderson, Upshur         | Bienville              | 661  | 773.13125   | Harris County 3 | Jasper         | 700               |
| 6  | Burleson                   | Victoria                 |                          | Caddo                  | 793  | 773.95625   | Harris County 4 | Houston        | 825               |
| 7  | Milam, Freestone           | Gonzales                 |                          | Caddo, Acadia          | 861  | 774.38125   | Harris County 1 | Jasper         | 425               |
| 8  |                            | Gonzales                 |                          | Caddo                  | 901  | 774.63125   | Harris County 1 | Jasper         | 250               |

## 16.1.29. Nacogdoches

| Nacogdoches County                                   |                          |                          |                          |           |             |                 |                |                |                   |  |
|--|--------------------------|--------------------------|--------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|--|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                          |                          |                          | Region 51 |             |                 |                |                |                   |  |
| Region 49<br>Central Texas                           | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana   | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |  |
| 1  | Travis                   | Jackson                  | Vernon, Red River        | 93        | 769.58125   | Harris County 1 | Nacogdoches    |                |                   |  |
| 2  | Fayette                  |                          | Vernon                   | 133       | 769.83125   | Harris County 6 | Nacogdoches    |                | 250               |  |
| 3  |                          |                          | Webster                  | 167       | 770.04375   | Waller          | Nacogdoches    |                | 212.5             |  |
| 4  | Travis                   |                          | Jeff Davis, Bossier      | 177       | 770.10625   | Harris County 1 | Nacogdoches    |                | 62.5              |  |
| 5  | Fayette                  |                          | Rapides                  | 215       | 770.34375   |                 | Nacogdoches    | Walker         | 237.5             |  |
| 6  | Robertson                | Victoria                 | Webster, Evangeline      | 245       | 770.53125   | Harris County 2 | Nacogdoches    |                | 187.5             |  |
| 7  | Caldwell                 |                          | Calcasieu                | 251       | 770.56875   | Montgomery      | Nacogdoches    |                | 37.5              |  |
| 8  | Milam                    |                          | Vernon, Bossier          | 343       | 771.14375   | Harris County 7 | Nacogdoches    |                | 575               |  |
| 9  |                          | Jackson                  | Webster, Allen           | 353       | 771.20625   | Harris County 3 | Nacogdoches    |                | 62.5              |  |
| 10   |                          | Victoria                 | Navarro                  | 363       | 771.26875   | Harris County 5 | Nacogdoches    | Orange         | 62.5              |  |
| 11   |                          |                          | Webster                  | 397       | 771.48125   | Harris County 2 | Nacogdoches    |                | 212.5             |  |
| 12   |                          | Victoria                 | Cameron, Natchitoches    | 403       | 771.51875   | Galveston       | Nacogdoches    | Walker         | 37.5              |  |
| 13   | Robson, Bast             | Victoria                 | Beauregard               | 447       | 771.79375   | Harris County 7 | Nacogdoches    |                | 275               |  |
| 14   | Limestone                |                          | Winn, Evangeline         | 453       | 771.83125   | Harris County 4 | Nacogdoches    |                | 37.5              |  |
| 15   | Madison                  |                          | Rapides                  | 513       | 772.20625   | Harris County 2 | Nacogdoches    |                | 375               |  |
| 16   | Leon                     |                          | Natchitoches             | 557       | 772.48125   | Harris County 1 | Nacogdoches    |                | 275               |  |
| 17   | Burl, Cald               | Goliad                   | Bossier, Cameron, Vernon | 587       | 772.66875   | Fort Bend       | Nacogdoches    |                | 187.5             |  |
| 18   | Bastrop                  |                          | Beauregard               | 601       | 772.75625   | Harris County 6 | Nacogdoches    |                | 87.5              |  |
| 19   |                          | Vict, Guad               | Webster, Rapides         | 673       | 773.20625   | Harris County 1 | Nacogdoches    |                | 450               |  |
| 20   |                          |                          | Calcasieu, Bossier       | 711       | 773.44375   | Harris County 5 | Nacogdoches    |                | 237.5             |  |
| 21   |                          | Marion                   | Red River                | 829       | 774.18125   | Harris County 3 | Nacogdoches    |                | 737.5             |  |
| 22   | Brazos                   | Refugio                  | Webster                  | 869       | 774.43125   | Harris County 3 | Nacogdoches    |                | 250               |  |

### 16.1.30. Newton

| Newton County                                 |                            |                          |                          |                        |           |             |                 |                |                |                   |
|---|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |                 |                |                |                   |
|   | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1   | Robsn, Bast                |                          | Cherokee                 | Caddo, Grant           | 161       | 770.00625   | Harris County 2 | Newton         |                |                   |
| 2   |                            |                          | Marion                   | Red River              | 409       | 771.55625   | Harris County 6 | Newton         |                | 1550              |
| 3   | Robertson                  |                          | Panola                   | Bienville              | 525       | 772.28125   | Harris County 6 | Newton         |                | 725               |
| 4   |                            |                          |                          | Webster, Grant         | 577       | 772.60625   | Harris County 1 | Houston        | Newton         | 325               |
| 5   |                            | Dewitt                   | Cherokee                 |                        | 617       | 772.85625   | Harris County 4 | Newton         |                | 250               |

### 16.1.31. Polk County

| Polk County                                   |                            |                          |                          |                        |           |             |                 |                |                |                   |
|---|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |                 |                |                |                   |
|   | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1   | Fayette, Freestone         |                          |                          | Beauregard, Caddo      | 51        | 769.31875   | Galveston       |                | Polk           |                   |
| 2   | Washington                 | Guadalupe                | Anderson, Harrison       | Jeff Davis, Winn       | 97        | 769.60625   | Galveston       |                | Polk           | 287.5             |
| 3   | Robertson                  | Victoria                 |                          | Webster, Evangeline    | 247       | 770.54375   |                 |                | Polk           | 937.5             |
| 4   | Brazos                     |                          | Henderson                | Grant, Acadia          | 391       | 771.44375   | Harris County 7 |                | Polk           | 900               |
| 5   | Washington                 |                          | Rusk, Navarro            | Rapides                | 433       | 771.70625   | Galveston       |                | Polk           | 262.5             |
| 6   | Washington                 |                          | Rusk                     | Cameron                | 475       | 771.96875   |                 |                | Polk           | 262.5             |
| 7   | Burleson                   |                          |                          | Vernon, Bossier        | 535       | 772.34375   | Galveston       |                | Polk           | 375               |
| 8   | Robertson                  |                          | Smith                    | Jeff Davis             | 575       | 772.59375   | Galveston       |                | Polk           | 250               |
| 9   | Brazos                     |                          | Gregg                    | Natchitoches           | 607       | 772.79375   | Galveston       |                | Polk           | 200               |
| 10  | Brazos                     |                          | Smith                    | Calcasieu              | 671       | 773.19375   |                 | Brazoria       | Polk           | 400               |
| 11  | Limestone                  | Guadalupe                | Harrison                 | Winn, Acadia           | 783       | 773.89375   | Fort Bend       |                | Polk           | 700               |

### 16.1.32. Sabine County

| Sabine County  |                            |                          |                          |                        |           |             |                 |                |                |                   |
|--|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |                 |                |                |                   |
|  | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  | Brazos                     |                          | Cherokee                 |                        | 13        | 769.08125   | Harris County 1 | Sabine         |                |                   |
| 2  | Burleson                   | Dewitt                   | Smith                    | Rapides                | 173       | 770.08125   | Harris County 6 | Houston        | Sabine         | 1000              |
| 3  | Limestone                  |                          | Gregg                    |                        | 493       | 772.08125   | Harris County 2 | Sabine         |                | 2000              |
| 4  | Bastrop                    |                          | Harrison                 | Acadia                 | 561       | 772.50625   | Harris County 2 | Sabine         | Trinity        | 425               |
| 5  | Lee                        | Refug, Guad              | Anderson                 | Acadia                 | 609       | 772.80625   | Harris County 2 | Sabine         |                | 300               |
| 6  | Milam                      |                          | Smith                    | Cameron,Rapides        | 757       | 773.73125   | Harris County 6 | Sabine         |                | 925               |
| 7  | Madison                    |                          | Cherokee                 | Bossier,Allen          | 877       | 774.48125   | Harris County 6 | Sabine         |                | 750               |
| 8  |                            | Calh, Guad               | Henderson                | Bossier,Grant          | 917       | 774.73125   | Harris County 6 | Sabine         | Trinity        | 250               |

### 16.1.33. San Augustine County

| San Augustine County                                 |                            |                          |                          |                        |           |             |                 |                |                |                   |
|--|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |                 |                |                |                   |
|  | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1  |                            |                          | Smith                    |                        | 85        | 769.53125   | Harris County 4 | San Augustine  | Orange         |                   |
| 2  | Leon                       | Lavaca                   | Harrison                 | Rapides, Vermillion    | 281       | 770.75625   | Harris County 1 | San Augustine  |                | 1225              |
| 3  |                            | Calhoun                  | Anderson,                | Winn,Evangeline        | 413       | 771.58125   | Harris County 1 | San Augustine  |                | 825               |
| 4  | Lee                        | Dewitt                   | Smith                    |                        | 521       | 772.25625   | Harris County 4 | Houston        | San Augustine  | 675               |
| 5  | Robertson                  |                          | Smith                    | Jeff Davis             | 573       | 772.58125   | Harris County 6 | San Augustine  |                | 325               |
| 6  | Grimes,Limestone           |                          | Harrison                 | Evangeline             | 621       | 772.88125   | Jefferson       | Brazoria       | San Augustine  | 300               |
| 7  |                            | Dewitt                   | Gregg                    | Red River,Evangeline   | 745       | 773.65625   | Harris County 3 | San Augustine  |                | 775               |

### 16.1.34. San Jacinto County

| San Jacinto County                            |                          |                          |                             |           |             |                 |                |                |                   |
|---|--------------------------|--------------------------|-----------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                          |                          |                             | Region 51 |             |                 |                |                |                   |
| Region 49<br>Central Texas                    | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana      | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1   |                          | Navarro, Gregg           | Calcasieu, Bossier, Rapides | 19        | 769.11875   | Fort Bend       | San Jacinto    |                |                   |
| 2   | Bastrop, Limestone       | Victoria                 | DeSoto, Allen               | 83        | 769.51875   |                 | Brazoria       | San Jacinto    | 400               |
| 3   | Robson, Bast, Limestone  | Victoria                 | Caddo, Vermilion            | 203       | 770.26875   |                 | Brazoria       | San Jacinto    | 750               |
| 4   | Freestone                | Goliad                   | Marion                      | 471       | 771.94375   |                 | Brazoria       | San Jacinto    | 1675              |
| 5   | Milam                    | Vict, Guad               | DeSoto, Allen               | 499       | 772.11875   |                 | Brazoria       | San Jacinto    | 175               |
| 6   | Robertson                |                          | Panola                      | 527       | 772.29375   |                 | Brazoria       | San Jacinto    | 175               |
| 7   |                          | Dewitt                   | Gregg                       | 747       | 773.66875   | Harris County 7 |                | San Jacinto    | 1375              |

### 16.1.35. Shelby County

| Shelby County                                 |                          |                          |                        |           |             |                 |                |                |                   |
|---|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                          |                          |                        | Region 51 |             |                 |                |                |                   |
| Region 49<br>Central Texas                    | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1   |                          | Smith                    |                        | 87        | 769.54375   | Harris County 5 | Shelby         |                |                   |
| 2   |                          |                          | Webster                | 165       | 770.03125   | Harris County 3 | Shelby         |                | 487.5             |
| 3   | Burleson                 | Dewitt                   | Smith                  | 175       | 770.09375   | Harris County 7 | Shelby         |                | 62.5              |
| 4   | Fayette                  |                          | Rapides                | 213       | 770.33125   | Harris County 6 | Shelby         |                | 237.5             |
| 5   | Caldwell                 |                          | Calcasieu              | 249       | 770.55625   | Harris County 3 | Shelby         |                | 225               |
| 6   | Fayette                  |                          | Beauregard, Grant      | 335       | 771.09375   | Galveston       | Shelby         | Walker         | 537.5             |
| 7   |                          | Victoria                 | Navarro                | 361       | 771.25625   | Harris County 4 | Shelby         | Houston        | 162.5             |
| 8   | Robertson                | Gonzales                 | Smith                  | 365       | 771.28125   | Harris County 6 | Shelby         |                | 25                |
| 9   |                          | Upshur                   |                        | 383       | 771.39375   | Waller          | Shelby         |                | 112.5             |
| 10  | Robson, Bast             | Victoria                 | Beauregard             | 445       | 771.78125   | Harris County 2 | Shelby         |                | 387.5             |
| 11  | Fayette                  |                          | Calcasieu              | 537       | 772.35625   | Harris County 2 | Shelby         |                | 575               |
| 12  | Grimes, Limestone        | Jackson                  |                        | 581       | 772.63125   | Jefferson       | Shelby         |                | 275               |
| 13  | Travis                   |                          | Henderson              | 797       | 773.98125   | Harris County 6 | Shelby         |                | 1350              |
| 14  | Travis                   |                          | Smith                  | 867       | 774.41875   | Montgomery      | Shelby         |                | 437.5             |
| 15  | Travis                   | Victoria                 | Smith                  | 907       | 774.66875   | Montgomery      | Shelby         |                | 250               |
| 16  | Limestone, Travis        | Victoria                 | Smith                  | 947       | 774.91875   | Montgomery      | Shelby         |                | 250               |

### 16.1.36. Trinity County

| Trinity County                                |                            |                          |                          |                        |           |             |                 |                |                |                   |
|---|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |                 |                |                |                   |
|   | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1   |                            |                          | Henderson                | Sabine                 | 205       | 770.28125   | Harris County 3 |                | Trinity        |                   |
| 2   | Fayette                    |                          |                          | Beauregard, Grant      | 333       | 771.08125   | Harris County 3 | Trinity        |                | 800               |
| 3   | Travis                     | Lavaca                   | Upshur                   | Caddo                  | 509       | 772.18125   | Harris County 1 | Trinity        |                | 1100              |
| 4   | Bastrop                    |                          | Harrison                 | Acadia                 | 561       | 772.50625   | Harris County 2 | Sabine         | Trinity        | 325               |
| 5   | Burl, Cald                 | Victoria                 | Smith                    | Vernon, Webster        | 627       | 772.91875   | Harris County 7 | Trinity        |                | 412.5             |
| 6   |                            | Calh, Guad               | Henderson                | Bossier, Grant         | 917       | 774.73125   | Harris County 6 | Sabine         | Trinity        | 1812.5            |

### 16.1.37. Tyler County

| Tyler County                                  |                            |                          |                          |                        |           |             |                 |                |                |                   |
|---|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|----------------|-------------------|
| Adjacent Regions' Original CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |                 |                |                |                   |
|   | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1   | Brazos                     |                          | Cherokee                 |                        | 15        | 769.09375   |                 | Brazoria       | Tyler          |                   |
| 2   |                            | Vict, Guad               | Harrison                 |                        | 41        | 769.25625   | Harris County 3 |                | Tyler          | 162.5             |
| 3   | Bastrop, Limestone         | Victoria                 |                          | DeSoto, Allen          | 81        | 769.50625   | Harris County 3 |                | Tyler          | 250               |
| 4   |                            |                          | Navarro                  | Caddo, Acadia          | 289       | 770.80625   | Harris County 2 |                | Tyler          | 1300              |
| 5   |                            |                          | Upshur                   |                        | 381       | 771.38125   | Harris County 3 |                | Tyler          | 575               |
| 6   | Caldwell                   | Refugio                  | Harrison                 | Jeff Davis             | 517       | 772.23125   | Harris County 3 |                | Tyler          | 850               |
| 7   | Madison                    |                          | Panola                   | Bienville, Rapides     | 613       | 772.83125   | Harris County 3 |                | Tyler          | 600               |
| 8   |                            | Lavaca                   | Gregg                    | Natchitoches           | 873       | 774.45625   | Harris County 4 |                | Tyler          | 1625              |



## 16.1.38. Orange County

| Orange County  |                            |                          |                          |                        |           |             |                 |                |              |                   |
|--|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------------|----------------|--------------|-------------------|
| Adjacent Regions' <i>Original</i> CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |                 |                |              |                   |
|  | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse       | Other Assigned | Other Assgnd | Freq Spread (kHz) |
| 1  |                            |                          | Smith                    | Natchitoches           | 45        | 769.28125   | Harris County 4 |                | Orange       |                   |
| 2  |                            |                          | Smith                    |                        | 85        | 769.53125   | Harris County 4 | San Augustine  | Orange       | 250               |
| 3  | Brazos                     | Victoria                 |                          | DeSoto                 | 131       | 769.81875   | Harris County 5 |                | Orange       | 287.5             |
| 4  | Travis                     |                          |                          | Jeff Davis, Bossier    | 179       | 770.11875   | Montgomery      |                | Orange       | 300               |
| 5  | Travis                     | Calhoun                  | Henderson                | Bossier                | 257       | 770.60625   | Harris County 6 |                | Orange       | 487.5             |
| 6  | Leon, Bast                 | Victoria                 | Panola                   | Bienville, Rapides     | 321       | 771.00625   | Harris County 6 |                | Orange       | 400               |
| 7  |                            | Victoria                 | Navarro                  | Bienville, Rapides     | 363       | 771.26875   | Harris County 5 | Nacogdoches    | Orange       | 262.5             |
| 8  | Leon, Caldwell             | Refugio                  | Upshur                   | Caddo                  | 437       | 771.73125   | Harris County 6 |                | Orange       | 462.5             |
| 9  | Travis                     | Lavaca                   | Upshur                   | Caddo                  | 511       | 772.19375   | Montgomery      | Matagorda      | Orange       | 462.5             |
| 10   | Brazos                     |                          | Anderson                 | Bienville, Rapides     | 565       | 772.53125   | Harris County 3 |                | Orange       | 337.5             |
| 11   | Brazos                     |                          | Gregg                    | Natchitoches           | 605       | 772.78125   | Harris County 1 |                | Orange       | 250               |
| 12   | Washington                 |                          | Gregg                    | Evangeline             | 707       | 773.41875   | Galveston       |                | Orange       | 637.5             |
| 13   | Limestone                  | Guadalupe                | Harrison                 | Winn, Acadia           | 781       | 773.88125   | Harris County 1 | Angelina       | Orange       | 462.5             |
| 14   |                            |                          | Marion                   | Red River              | 831       | 774.19375   | Montgomery      |                | Orange       | 312.5             |
| 15   |                            | Calhoun, Guadalupe       | Henderson                | Bossier, Grant         | 919       | 774.74375   | Montgomery      |                | Orange       | 550               |

### 16.1.39. Walker County

| Walker County                        |                            |                          |                          |                        |           |             |           |                |                |                   |
|--------------------------------------|----------------------------|--------------------------|--------------------------|------------------------|-----------|-------------|-----------|----------------|----------------|-------------------|
| Adjacent Regions' CAPRAD Assignments |                            |                          |                          |                        | Region 51 |             |           |                |                |                   |
|                                      | Region 49<br>Central Texas | Region 53<br>South Texas | Region 40<br>North Texas | Region 18<br>Louisiana | Chan      | Center Freq | 1st Reuse | Other Assigned | Other Assigned | Freq Spread (kHz) |
| 1                                    | Travis                     | Calhoun                  | Upshur                   | Sabine                 | 55        | 769.34375   | Fort Bend |                | Walker         |                   |
| 2                                    |                            |                          | Smith                    | Webster                | 127       | 769.79375   |           |                | Walker         | 450               |
| 3                                    | Fayette                    |                          |                          | Rapides                | 215       | 770.34375   |           | Nacogdoches    | Walker         | 550               |
| 4                                    | Fayette                    |                          | Rusk                     | Vernon                 | 295       | 770.84375   |           |                | Walker         | 500               |
| 5                                    | Fayette                    |                          |                          | Beauregard, Grant      | 335       | 771.09375   | Galveston | Shelby         | Walker         | 250               |
| 6                                    |                            | Jackson                  |                          | Webster, Allen         | 355       | 771.21875   |           |                | Walker         | 125               |
| 7                                    |                            | Victoria                 |                          | Cameron, Natchitoches  | 403       | 771.51875   | Galveston | Nacogdoches    | Walker         | 300               |
| 8                                    |                            | Calhoun, Gonzales        | Henderson                | Beauregard, Red River  | 491       | 772.06875   | Fort Bend |                | Walker         | 550               |
| 9                                    | Fayette                    |                          |                          | Calcasieu              | 539       | 772.36875   |           |                | Walker         | 300               |
| 10                                   | Bastrop                    |                          |                          | Beauregard             | 603       | 772.76875   |           |                | Walker         | 400               |
| 11                                   | Lee                        |                          | Smith                    | Jeff Davis, DeSoto     | 719       | 773.49375   |           |                | Walker         | 725               |
| 12                                   | Fayette                    |                          | Gregg                    | Calcasieu              | 791       | 773.94375   | Galveston |                | Walker         | 450               |
| 13                                   | Bastrop                    |                          | Harrison, Navarro        | Natchitoches           | 823       | 774.14375   | Fort Bend |                | Walker         | 200               |
| 14                                   |                            | Gonzales                 |                          | Caddo                  | 903       | 774.64375   | Fort Bend |                | Walker         | 500               |
| 15                                   |                            |                          |                          | Caddo                  | 943       | 774.89375   | Fort Bend |                | Walker         | 250               |

## 16.2. FCC Rules Sec. 90.531 Band Plan.

This is the band plan for the 763-775 MHz and 793-805 MHz public safety bands.

### 16.2.1. (a) Base and Mobile Use.

The 763-775 MHz band may be used for base, mobile or fixed (repeater) transmissions. The 793-805 MHz band may be used only for mobile or fixed (control) transmissions.

### 16.2.2. (b) Narrowband Segments.

There are two band segments that are designated for use with narrowband emissions. Each of these narrowband segments is divided into 960 channels having a channel size of 6.25 kHz as follows:

| Frequency Range | Channel Numbers |
|-----------------|-----------------|
| 769-775 MHz     | 1-960           |
| 799-805 MHz     | 961-1920        |

- (1) Narrowband interoperability channels. The following narrowband channels are designated for nationwide interoperability licensing and use: 23, 24, 39, 40, 63, 64, 79, 80, 103, 104, 119, 120, 143, 144, 159, 160, 183, 184, 199, 200, 223, 224, 239, 240, 263, 264, 279, 280, 303, 304, 319, 320, 641, 642, 657, 658, 681, 682, 697, 698, 721, 722, 737, 738, 761, 762, 777, 778, 801, 802, 817, 818, 841, 842, 857, 858, 881, 882, 897, 898, 921, 922, 937, 938, 983, 984, 999, 1000, 1023, 1024, 1039, 1040, 1063, 1064, 1079, 1080, 1103, 1104, 1119, 1120, 1143, 1144, 1159, 1160, 1183, 1184, 1199, 1200, 1223, 1224, 1239, 1240, 1263, 1264, 1279, 1280, 1601, 1602, 1617, 1618, 1641, 1642, 1657, 1658, 1681, 1682, 1697, 1698, 1721, 1722, 1737, 1738, 1761, 1762, 1777, 1778, 1801, 1802, 1817, 1818, 1841, 1842, 1857, 1858, 1881, 1882, 1897, 1898.

16.2.2..1. (i) Narrowband data Interoperability channels. The following channel pairs are reserved nationwide for the express purpose of data transmission only: 279/1239, 280/1240, 921/1881, and 922/1882.

16.2.2..2. (ii) Narrowband calling Interoperability channels. The following channel pairs are dedicated nationwide for the express purpose of Interoperability calling only: 39/999, 40/1000,

681/1641, and 682/1642. They may not be used primarily for routine, day-to-day communications. Encryption is prohibited on the designated calling channels.

16.2.2.3. (iii) Narrowband trunking Interoperability channels. The following Interoperability channel pairs may be combined with the appropriate adjacent secondary trunking channel pairs and used in trunked mode on a secondary basis to conventional Interoperability operations: 23/983, 24/984, 103/1063, 104/1064, 183/1143, 184/1144, 263/1223, 264/1224, 657/1617, 658/1618, 737/1697, 738/1698, 817/1777, 818/1778, 897/1857, 898/1858. For every ten general use channels trunked at a station, entities may obtain a license to operate in the trunked mode on two of the above contiguous Interoperability channel pairs. The maximum number of Interoperability channel pairs that can be trunked at any one location is eight.

- (2) Narrowband reserve channels. The following narrowband channels are undesignated and reserved: 37, 38, 61, 62, 77, 78, 117, 118, 141, 142, 157, 158, 197, 198, 221, 222, 237, 238, 277, 278, 301, 302, 317, 318, 643, 644, 683, 684, 699, 700, 723, 724, 763, 764, 779, 780, 803, 804, 843, 844, 859, 860, 883, 884, 923, 924, 939, 940, 997, 998, 1021, 1022, 1037, 1038, 1077, 1078, 1101, 1102, 1117, 1118, 1157, 1158, 1181, 1182, 1197, 1198, 1237, 1238, 1261, 1262, 1277, 1278, 1603, 1604, 1643, 1644, 1659, 1660, 1683, 1684, 1723, 1724, 1739, 1740, 1763, 1764, 1803, 1804, 1819, 1820, 1843, 1844, 1883, 1884, 1899, 1900.
- (3) Narrowband low power channels subject to regional planning. The following narrowband channels are designated for low power use for on-scene incident response purposes using mobiles and portables subject to Commission-approved regional planning committee regional plans. Transmitter power must not exceed 2 watts (ERP): Channels 1-8 paired with Channels 961-968, and Channels 949-958 paired with Channels 1909-1918.
- (4) Narrowband low power itinerant channels. The following narrowband channels are designated for low power use for on-scene incident response purposes using mobiles and portables. These channels are licensed nationwide for itinerant operation. Transmitter power must not exceed 2 watts (ERP): Channels 9-12 paired with Channels 969-972 and Channels 959-960 paired with Channels 1919-1920.
- (5) Narrowband state channels. The following narrowband channels are designated for direct licensing to each state (including U.S. territories, districts, and possessions): 25-36, 65-76, 105-116, 145-156, 185-196, 225-236, 265-276, 305-316, 645-656, 685-696, 725-736, 765-776, 805-

816, 845-856, 885-896, 925-936, 985-996, 1025-1036, 1065-1076, 1105-1116, 1145-1156, 1185-1196, 1225-1236, 1265-1276, 1605-1616, 1645-1656, 1685-1696, 1725-1736, 1765-1776, 1805-1816, 1845-1856, 1885-1896. Voice operations on these channels are subject to compliance with the spectrum usage efficiency requirements set forth in Sec. 90.535(d).

- (6) Narrowband general use channels. All narrowband channels established in paragraph (b) of this section, other than those listed in paragraphs (b)(1), (b)(2), (b)(4) and (b)(5) of this section are designated to public safety eligible's subject to Commission approved regional planning committee regional plans. Voice operations on these channels are subject to compliance with the spectrum usage efficiency requirements set forth in Sec. 90.535(d).

- (7) Secondary trunking channels. The following channel pairs are reserved for secondary trunking operations: 21/981, 22/982, 101/1061, 102/1062, 181/1141, 182/1142, 261/1221, 262/1222, 659/1619, 660/1620, 739/1699, 740/1700, 819/1779, 820/1780, 899/1859, and 900/1860. They may be used only in combination with the appropriate adjacent Interoperability channel pairs specified in paragraph (b) (1) (iii) of this section in trunked systems.

16.2.3. (c) [Reserved]

16.2.4. (d) Combining Channels.

Except as noted in this section, at the discretion of the appropriate regional planning committee, contiguous channels may be used in combination in order to accommodate requirements for larger bandwidth emissions, in accordance with this paragraph. Interoperability channels may not be combined with channels in another group except for channels for secondary trunking channels.

- (1) Narrowband. Subject to compliance with the spectrum usage efficiency requirements set forth in Sec. 90.535, two or four contiguous narrowband (6.25 KHz) channels may be used in combination as 12.5 KHz or 25 KHz channels, respectively. The lower (in frequency) channel for two channel combinations must be an odd (i.e., 1, 3, 5 \* \* \*) numbered channel. The lowest (in frequency) channel for four channel combinations must be a channel whose number is equal to  $1+(4 \times n)$ , where  $n$  = any integer between 0 and 479, inclusive (e.g., channel number 1, 5, \* \* \* 1917). Channel combinations are designated by the lowest and highest channel numbers separated by a hyphen, e.g., ``1-2" for a two channel combination and ``1-4" for a four channel combination.

- (2) [Reserved]

16.2.5. (e) Channel Pairing.

In general, channels must be planned and assigned in base/mobile pairs that are separated by 30 MHz. However, until December 31, 2006, channels other than those listed in paragraphs (b)(1) and (c)(1), may be planned and assigned in base/mobile pairs having a different separation, where necessary because 30 MHz base/mobile pairing is precluded by the presence of one or more co-channel or adjacent channel TV/DTV broadcast stations.

- 16.2.6. (f) Internal guard band. The internal guard band (768-769/798-799 MHz) is reserved.
- 16.2.7. (g) Broadband. The 763-768 MHz and 793-798 MHz bands are allocated for broadband communications pursuant to the Public Safety Broadband License.



## 17. Inter-Regional Dispute Resolution Agreement

### 17.1. Region 18

Page 1 of 4

*Inter-Regional Coordination Procedures  
and  
Procedures for Resolution of Disputes  
That May Arise Under FCC Approved Plans*

***I. Coordination Procedures***

**I. INTRODUCTION**

1. This is a mutually agreed upon Inter-Regional Coordination Procedures Agreement (Agreement) by and between the following 700 MHz Regional Planning Committees, Region 51 and Region 18 .

**II. INTER-REGIONAL COORDINATION AGREEMENT**

2. The following is the specific procedure for inter-regional coordination which has been agreed upon by Region 51 and Region 18 and which will be used by the Regions to coordinate with adjacent Regional Planning Committees.

a. An application filing window is opened or the Region announces that it is prepared to begin accepting applications on a first-come/first-served basis.

b. Applications by eligible entities are accepted.

c. An application filing window (if this procedure is being used) is closed after appropriate time interval.

d. Intra-regional review and coordination takes place, including a technical review resulting in assignment of channels.

e. After intra-regional review, a copy of those frequency-specific applications requiring adjacent Region approval, including a definition statement of proposed service area, shall then be forwarded to the adjacent Region(s) for review.<sup>1</sup> This information will be sent to the adjacent Regional chairperson(s) using the CAPRAD database.

<sup>1</sup> If an applicant's proposed service area [or interference contour](#) extends into an adjacent Public Safety Region(s), the application must be approved by the affected Region(s). Service area shall normally be defined as the area included within the geographical boundary of the applicant, plus three (3) miles. [Interference contour shall normally be defined as a 5 dBu co-channel contour or a 60 dBu adjacent channel](#)



f. The adjacent Region reviews the application. If the application is approved, a letter of concurrence shall be sent, via the CAPRAD database, to the initiating Regional chairperson within thirty (30) calendar days.

## *II. Dispute Resolution*

(1) If the adjacent Region(s) cannot approve the request, the adjacent Region shall document the reasons for partial or non-concurrence, and respond within 10 (Ten) calendar days via email. If the applying Region cannot modify the application to satisfy the objections of the adjacent Region then, a working group comprised of representatives of the two Regions shall be convened within thirty (30) calendar days to attempt to resolve the dispute. The working group shall then report its findings within thirty (30) calendar days to the Regional chairpersons email (CAPRAD database). Findings may include, but not be limited to:

- (i) Unconditional concurrence;
- (ii) conditional concurrence contingent upon modification of applicant's technical parameters; or
- (iii) partial or total denial of proposed frequencies due to inability to meet co-channel/adjacent channel interference free protection to existing licensees within the adjacent Region.

(2) If the Inter-Regional Working Group cannot resolve the dispute, then the matter shall be forwarded for evaluation to the National Plan Oversight Committee (NPOC)<sup>2</sup>, of the National Public Safety Telecommunications Council. Each Region involved in the dispute shall include a detailed explanation of its position, including

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<sup>2</sup> [contour](#). Other definitions of service area or [interference](#) shall be justified with an accompanying *Memorandum of Understanding (MOU)* or other application documentation between agencies, i.e. mutual aid agreements.



engineering studies and any other technical information deemed relevant. The NPOC will, within thirty (30) calendar days, report its recommendation(s) to the Regional chairpersons via the CAPRAD database. The NPOC's decision may support either of the disputing Regions or it may develop a proposal that it deems mutually advantageous to each disputing Region.

g. Where adjacent Region concurrence has been secured, and the channel assignments would result in no change to the Region's currently Commission approved channel assignment matrix. The initiating Region may then advise the applicant(s) that their application may be forwarded to a frequency coordinator for processing and filing with the Commission.

h. Where adjacent Region concurrence has been secured, and the channel assignments would result in a change to the Region's currently Commission approved channel assignment matrix, then the initiating Region shall file with the Commission a *Petition to Amend* their current Regional plan's frequency matrix, reflecting the new channel assignments, with a copy of the *Petition* sent to the adjacent Regional chairperson(s).

i. Upon Commission issuance of an *Order* adopting the amended channel assignment matrix, the initiating Regional chairperson will send a courtesy copy of the *Order* to the adjacent Regional chairperson(s) and may then advise the applicant(s) that they may forward their applications to the frequency coordinator for processing and filing with the Commission.

### III. CONCLUSION

3. IN AGREEMENT HERETO, Region 51 and Region 18 do hereunto set their signatures the day and year first above written.

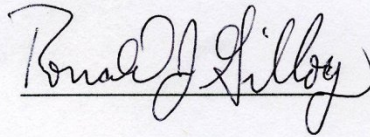
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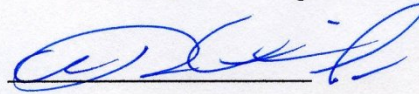
<sup>2</sup> The Regional Plan Oversight Committee (RPOC) is a committee within the National Public Safety Telecommunications Council (NPSTC) established to arbitrate disputes between 700 MHz Regions that cannot be resolved by the impacted Regions.



Respectfully,

[all signatories to agreement]





Date: \_\_\_\_\_

**Regional Chairman**

**Louisiana**

William R. Vincent, Sr. Chairman  
Region 18, 700 MHz Public Safety Planning Committee  
Louisiana Public Safety Planning Advisory Committee  
P.O. Box 82236  
Lafayette, Louisiana 70598  
PH: (337) 291-5060  
FAX: (337) 291-5080  
Email: [lfteoc@att.net](mailto:lfteoc@att.net)

**Regional Chairman**

**Texas- East**

Ron Gillory  
Houston Police Department  
Communications Management Division  
61 Reisner Street  
Houston, TX 77002  
PH: 713-247-5744  
FX: 713-247-4368  
Email: [sezron@hic.net](mailto:sezron@hic.net)



## 17.2. Region 40

*Inter-Regional Coordination Procedures  
and  
Procedures for Resolution of Disputes  
That May Arise Under FCC Approved Plans*

**I. Coordination Procedures**

**I. INTRODUCTION**

1. This is a mutually agreed upon Inter-Regional Coordination Procedures Agreement (Agreement) by and between the following 700 MHz Regional Planning Committees, Region 51 and Region 40 .

**II. INTER-REGIONAL COORDINATION AGREEMENT**

2. The following is the specific procedure for inter-regional coordination which has been agreed upon by Region 51 and Region 40, and which will be used by the Regions to coordinate with adjacent Regional Planning Committees.

- a. An application filing window is opened or the Region announces that it is prepared to begin accepting applications on a first-come/first-served basis.
- b. Applications by eligible entities are accepted.
- c. An application filing window (if this procedure is being used) is closed after appropriate time interval.
- d. Intra-regional review and coordination takes place, including a technical review resulting in assignment of channels.
- e. After intra-regional review, a copy of those frequency-specific applications requiring adjacent Region approval, including a definition statement of proposed service area, shall then be forwarded to the adjacent Region(s) for review.<sup>1</sup> This information will be sent to the adjacent Regional chairperson(s) using the CAPRAD database.

<sup>1</sup> If an applicant's proposed service area [or interference contour](#) extends into an adjacent Public Safety Region(s), the application must be approved by the affected Region(s). Service area shall normally be defined as the area included within the geographical boundary of the applicant, plus three (3) miles. [Interference contour shall normally be defined as a 5 dBu co-channel contour or a 60 dBu adjacent channel](#)



f. The adjacent Region reviews the application. If the application is approved, a letter of concurrence shall be sent, via the CAPRAD database, to the initiating Regional chairperson within thirty (30) calendar days.

## *II. Dispute Resolution*

(1) If the adjacent Region(s) cannot approve the request, the adjacent Region shall document the reasons for partial or non-concurrence, and respond within 10 (Ten) calendar days via email. If the applying Region cannot modify the application to satisfy the objections of the adjacent Region then, a working group comprised of representatives of the two Regions shall be convened within thirty (30) calendar days to attempt to resolve the dispute. The working group shall then report its findings within thirty (30) calendar days to the Regional chairpersons email (CAPRAD database). Findings may include, but not be limited to:

- (i) Unconditional concurrence;
- (ii) conditional concurrence contingent upon modification of applicant's technical parameters; or
- (iii) partial or total denial of proposed frequencies due to inability to meet co-channel/adjacent channel interference free protection to existing licensees within the adjacent Region.

(2) If the Inter-Regional Working Group cannot resolve the dispute, then the matter shall be forwarded for evaluation to the National Plan Oversight Committee (NPOC)<sup>2</sup>, of the National Public Safety Telecommunications Council. Each Region involved in the dispute shall include a detailed explanation of its position, including

---

<sup>2</sup> contour. Other definitions of service area or interference shall be justified with an accompanying *Memorandum of Understanding (MOU)* or other application documentation between agencies, i.e. mutual aid agreements.



engineering studies and any other technical information deemed relevant. The NPOC will, within thirty (30) calendar days, report its recommendation(s) to the Regional chairpersons via the CAPRAD database. The NPOC's decision may support either of the disputing Regions or it may develop a proposal that it deems mutually advantageous to each disputing Region.

g. Where adjacent Region concurrence has been secured, and the channel assignments would result in no change to the Region's currently Commission approved channel assignment matrix. The initiating Region may then advise the applicant(s) that their application may be forwarded to a frequency coordinator for processing and filing with the Commission.

h. Where adjacent Region concurrence has been secured, and the channel assignments would result in a change to the Region's currently Commission approved channel assignment matrix, then the initiating Region shall file with the Commission a *Petition to Amend* their current Regional plan's frequency matrix, reflecting the new channel assignments, with a copy of the *Petition* sent to the adjacent Regional chairperson(s).

i. Upon Commission issuance of an *Order* adopting the amended channel assignment matrix, the initiating Regional chairperson will send a courtesy copy of the *Order* to the adjacent Regional chairperson(s) and may then advise the applicant(s) that they may forward their applications to the frequency coordinator for processing and filing with the Commission.

### III. CONCLUSION

3. IN AGREEMENT HERETO, Region 51 and Region 40 do hereunto set their signatures the day and year first above written.

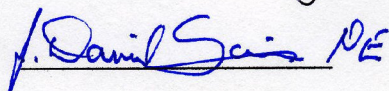
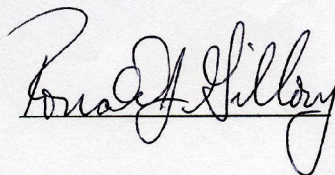
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<sup>2</sup> The Regional Plan Oversight Committee (RPOC) is a committee within the National Public Safety Telecommunications Council (NPSTC) established to arbitrate disputes between 700 MHz Regions that cannot be resolved by the impacted Regions.



Respectfully,

[all signatories to agreement]



Chair - Region 40

Date: 9-13-06

**Regional Chairman**

**Texas (Central and Northeast)**

J. Daniel Scrivner

Manager of Communications

Department of Communications and Information Services

City of Dallas

3131 Dawson St.

Dallas, TX 75226

P: 214-670-7995

F: 214-670-7984

Email: [j.scrivner@dallascityhall.com](mailto:j.scrivner@dallascityhall.com)

**Regional Chairman**

**Texas- East**

Ron Gillory

Houston Police Department

Communications Management Division

61 Reisner Street

Houston, TX 77002

PH: 713-247-5744

FX: 713-247-4368

Email: [sezron@hic.net](mailto:sezron@hic.net)



## 17.3. Region 49

*Inter-Regional Coordination Procedures  
and  
Procedures for Resolution of Disputes  
That May Arise Under FCC Approved Plans*

***I. Coordination Procedures***

**I. INTRODUCTION**

1. This is a mutually agreed upon Inter-Regional Coordination Procedures Agreement (Agreement) by and between the following 700 MHz Regional Planning Committees, Region 51 and Region 49 .

**II. INTER-REGIONAL COORDINATION AGREEMENT**

2. The following is the specific procedure for inter-regional coordination which has been agreed upon by Region 51 and Region 49 , and which will be used by the Regions to coordinate with adjacent Regional Planning Committees.

- a. An application filing window is opened or the Region announces that it is prepared to begin accepting applications on a first-come/first-served basis.
- b. Applications by eligible entities are accepted.
- c. An application filing window (if this procedure is being used) is closed after appropriate time interval.
- d. Intra-regional review and coordination takes place, including a technical review resulting in assignment of channels.
- e. After intra-regional review, a copy of those frequency-specific applications requiring adjacent Region approval, including a definition statement of proposed service area, shall then be forwarded to the adjacent Region(s) for review.<sup>1</sup> This information will be sent to the adjacent Regional chairperson(s) using the CAPRAD database.

<sup>1</sup> If an applicant's proposed service area [or interference contour](#) extends into an adjacent Public Safety Region(s), the application must be approved by the affected Region(s). Service area shall normally be defined as the area included within the geographical boundary of the applicant, plus three (3) miles. [Interference contour shall normally be defined as a 5 dBu co-channel contour or a 60 dBu adjacent channel](#)



f. The adjacent Region reviews the application. If the application is approved, a letter of concurrence shall be sent, via the CAPRAD database, to the initiating Regional chairperson within thirty (30) calendar days.

## *II. Dispute Resolution*

(1) If the adjacent Region(s) cannot approve the request, the adjacent Region shall document the reasons for partial or non-concurrence, and respond within 10 (Ten) calendar days via email. If the applying Region cannot modify the application to satisfy the objections of the adjacent Region then, a working group comprised of representatives of the two Regions shall be convened within thirty (30) calendar days to attempt to resolve the dispute. The working group shall then report its findings within thirty (30) calendar days to the Regional chairpersons email (CAPRAD database). Findings may include, but not be limited to:

- (i) Unconditional concurrence;
- (ii) conditional concurrence contingent upon modification of applicant's technical parameters; or
- (iii) partial or total denial of proposed frequencies due to inability to meet co-channel/adjacent channel interference free protection to existing licensees within the adjacent Region.

(2) If the Inter-Regional Working Group cannot resolve the dispute, then the matter shall be forwarded for evaluation to the National Plan Oversight Committee (NPOC)<sup>2</sup>, of the National Public Safety Telecommunications Council. Each Region involved in the dispute shall include a detailed explanation of its position, including

---

<sup>2</sup> contour. Other definitions of service area or interference shall be justified with an accompanying *Memorandum of Understanding (MOU)* or other application documentation between agencies, i.e. mutual aid agreements.



engineering studies and any other technical information deemed relevant. The NPOC will, within thirty (30) calendar days, report its recommendation(s) to the Regional chairpersons via the CAPRAD database. The NPOC's decision may support either of the disputing Regions or it may develop a proposal that it deems mutually advantageous to each disputing Region.

g. Where adjacent Region concurrence has been secured, and the channel assignments would result in no change to the Region's currently Commission approved channel assignment matrix. The initiating Region may then advise the applicant(s) that their application may be forwarded to a frequency coordinator for processing and filing with the Commission.

h. Where adjacent Region concurrence has been secured, and the channel assignments would result in a change to the Region's currently Commission approved channel assignment matrix, then the initiating Region shall file with the Commission a *Petition to Amend* their current Regional plan's frequency matrix, reflecting the new channel assignments, with a copy of the *Petition* sent to the adjacent Regional chairperson(s).

i. Upon Commission issuance of an *Order* adopting the amended channel assignment matrix, the initiating Regional chairperson will send a courtesy copy of the *Order* to the adjacent Regional chairperson(s) and may then advise the applicant(s) that they may forward their applications to the frequency coordinator for processing and filing with the Commission.

### III. CONCLUSION

3. IN AGREEMENT HERETO, Region 51 and Region 49 do hereunto set their signatures the day and year first above written.

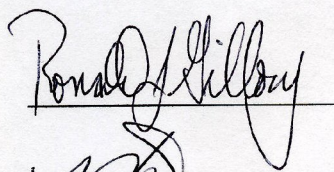
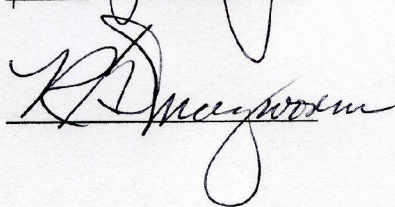
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<sup>2</sup> The Regional Plan Oversight Committee (RPOC) is a committee within the National Public Safety Telecommunications Council (NPSTC) established to arbitrate disputes between 700 MHz Regions that cannot be resolved by the impacted Regions.



Respectfully,

[all signatories to agreement]

Date: 8/29/06

**Regional Chairman**  
**Central Texas (Austin Area)**  
Ronald G. Mayworm  
Radio System Engineer  
City of Bryan, Texas  
P.O. Box 1585  
Bryan, TX 77805-1585  
PH: 979-209-5475  
FX: 979-209-5489  
Email: [ron@ktsignals.com](mailto:ron@ktsignals.com)

**Regional Chairman**  
**Texas- East**  
Ron Gillory  
Houston Police Department  
Communications Management Division  
61 Reisner Street  
Houston, TX 77002  
PH: 713-247-5744  
FX: 713-247-4368  
Email: [sezron@hic.net](mailto:sezron@hic.net)



## 17.4. Region 53

Page 1 of 4

***Inter-Regional Coordination Procedures  
and  
Procedures for Resolution of Disputes  
That May Arise Under FCC Approved Plans***

***I. Coordination Procedures***

**I. INTRODUCTION**

1. This is a mutually agreed upon Inter-Regional Coordination Procedures Agreement (Agreement) by and between the following 700 MHz Regional Planning Committees, Region 51 and Region 53.

**II. INTER-REGIONAL COORDINATION AGREEMENT**

2. The following is the specific procedure for inter-regional coordination which has been agreed upon by Region 51 and Region 53, and which will be used by the Regions to coordinate with adjacent Regional Planning Committees.

a. An application filing window is opened or the Region announces that it is prepared to begin accepting applications on a first-come/first-served basis.

b. Applications by eligible entities are accepted.

c. An application filing window (if this procedure is being used) is closed after appropriate time interval.

d. Intra-regional review and coordination takes place, including a technical review resulting in assignment of channels.

e. After intra-regional review, a copy of those frequency-specific applications requiring adjacent Region approval, including a definition statement of proposed service area, shall then be forwarded to the adjacent Region(s) for review.<sup>1</sup> This information will be sent to the adjacent Regional chairperson(s) using the CAPRAD database.

<sup>1</sup> If an applicant's proposed service area or interference contour extends into an adjacent Public Safety Region(s), the application must be approved by the affected Region(s). Service area shall normally be defined as the area included within the geographical boundary of the applicant, plus three (3) miles. Interference contour shall normally be defined as a 5 dBu co-channel contour or a 60 dBu adjacent channel



f. The adjacent Region reviews the application. If the application is approved, a letter of concurrence shall be sent, via the CAPRAD database, to the initiating Regional chairperson within thirty (30) calendar days.

## *II. Dispute Resolution*

(1) If the adjacent Region(s) cannot approve the request, the adjacent Region shall document the reasons for partial or non-concurrence, and respond within 10 (Ten) calendar days via email. If the applying Region cannot modify the application to satisfy the objections of the adjacent Region then, a working group comprised of representatives of the two Regions shall be convened within thirty (30) calendar days to attempt to resolve the dispute. The working group shall then report its findings within thirty (30) calendar days to the Regional chairpersons email (CAPRAD database). Findings may include, but not be limited to:

- (i) Unconditional concurrence;
- (ii) conditional concurrence contingent upon modification of applicant's technical parameters; or
- (iii) partial or total denial of proposed frequencies due to inability to meet co-channel/adjacent channel interference free protection to existing licensees within the adjacent Region.

(2) If the Inter-Regional Working Group cannot resolve the dispute, then the matter shall be forwarded for evaluation to the National Plan Oversight Committee (NPOC)<sup>2</sup>, of the National Public Safety Telecommunications Council. Each Region involved in the dispute shall include a detailed explanation of its position, including

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<sup>2</sup> contour. Other definitions of service area or interference shall be justified with an accompanying *Memorandum of Understanding (MOU)* or other application documentation between agencies, i.e. mutual aid agreements.



engineering studies and any other technical information deemed relevant. The NPOC will, within thirty (30) calendar days, report its recommendation(s) to the Regional chairpersons via the CAPRAD database. The NPOC's decision may support either of the disputing Regions or it may develop a proposal that it deems mutually advantageous to each disputing Region.

g. Where adjacent Region concurrence has been secured, and the channel assignments would result in no change to the Region's currently Commission approved channel assignment matrix. The initiating Region may then advise the applicant(s) that their application may be forwarded to a frequency coordinator for processing and filing with the Commission.

h. Where adjacent Region concurrence has been secured, and the channel assignments would result in a change to the Region's currently Commission approved channel assignment matrix, then the initiating Region shall file with the Commission a *Petition to Amend* their current Regional plan's frequency matrix, reflecting the new channel assignments, with a copy of the *Petition* sent to the adjacent Regional chairperson(s).

i. Upon Commission issuance of an *Order* adopting the amended channel assignment matrix, the initiating Regional chairperson will send a courtesy copy of the *Order* to the adjacent Regional chairperson(s) and may then advise the applicant(s) that they may forward their applications to the frequency coordinator for processing and filing with the Commission.

### III. CONCLUSION

3. IN AGREEMENT HERETO, Region 51 and Region 53 do hereunto set their signatures the day and year first above written.

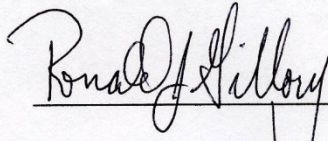
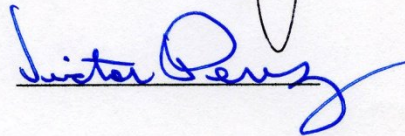
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<sup>2</sup> The Regional Plan Oversight Committee (RPOC) is a committee within the National Public Safety Telecommunications Council (NPSTC) established to arbitrate disputes between 700 MHz Regions that cannot be resolved by the impacted Regions.



Respectfully,

[all signatories to agreement]

Date: 8/8/06

**Regional Chairman  
Southern Texas**

Mr. Victor Perez  
Assistant Information Services Manager  
City of San Antonio  
515 S. Frio  
San Antonio, TX 78207  
PH: 210-207-4007  
FX: 210-207-7366  
Email: [vperez@ci.sat.tx.us](mailto:vperez@ci.sat.tx.us)

**Regional Chairman  
Texas- East**

Ron Gillory  
Houston Police Department  
Communications Management Division  
61 Reisner Street  
Houston, TX 77002  
PH: 713-247-5744  
FX: 713-247-4368  
Email: [sezron@hic.net](mailto:sezron@hic.net)

## 18. Adjacent Regions Concurrences

### 18.1. Region 18

Page 1 of 6

#### Frankhouser, Douglas - HAS

**From:** Bill Vincent [billvincent@lafayettegov.net]  
**Sent:** Thursday, August 09, 2007 10:38 AM  
**To:** Douglas.Frankhouser@cityofhouston.net  
**Subject:** FW: Region 51 700 MHz Plan

Doug Frankhouser, Chair  
Region 51

Dear Mr. Frankhouser:

Region 18 is in receipt of your proposed 700 MHz Region Plan as modified with the adjacent region coordination language as agreed to in the emails below.

You may use this email as the official written concurrence of Region 18 to your proposed 700 MHz Regional Plan.

Sincerely,

William Vincent, Chair  
Region 18  
(337-291-5060)  
[woc@lafayettegov.net](mailto:woc@lafayettegov.net)

-----Original Message-----

**From:** Bill Vincent [mailto:billvincent@worldnet.att.net]  
**Sent:** Thursday, August 09, 2007 10:28 AM  
**To:** Bill Vincent  
**Subject:** Fw: Region 51 700 MHz Plan

----- Original Message -----

**From:** Frankhouser, Douglas - HAS  
**To:** [Bill.Vincent](mailto:Bill.Vincent)  
**Sent:** Monday, August 06, 2007 4:32 PM  
**Subject:** RE: Region 51 700 MHz Plan

Bill:

Per your email of concurrence, I added that paragraph to the plan. I sent an email July 19th (to all the chairs adjacent to R51) indicating that the paragraph had been added and the new version of the document uploaded to the R51 website, and that I would update the CAPRAD website shortly after that (which was done a few days later). Not sure what happened if you didn't get that email. If you need anything else please advise.

Thanks!

*Doug*

8/9/2007



**Frankhouser, Douglas - HAS**

**From:** Bill Vincent [billvincent@lafayettegov.net]  
**Sent:** Monday, January 21, 2008 9:39 AM  
**To:** 'Frankhouser, Douglas - HAS'; Mayworm, Ronald G; j.scrivner@dallascityhall.com; rmorales@sanantonio.gov; Lafayette EOC  
**Subject:** RE: Region 51 700 MHz Plan

Doug,

Region 18 concurs with these Region 51 frequency packing tables.

William R. Vincent, Sr., Chair  
Region 18 (Louisiana) 700 MHz. Planning Committee

-----Original Message-----

**From:** Frankhouser, Douglas - HAS [mailto:Douglas.Frankhouser@cityofhouston.net]  
**Sent:** Friday, January 18, 2008 11:03 AM  
**To:** Mayworm, Ronald G; j.scrivner@dallascityhall.com; rmorales@sanantonio.gov; Lafayette EOC  
**Subject:** Region 51 700 MHz Plan

Gents:

As per our previous emails, the Region 51 700 MHz has been revised to meet the changes issued by the FCC second order. The frequency packing tables were sent by previous email earlier this week. The Region 51 website is:  
<http://www.region51.hctx.net>.  
I will also ship a hardcopy today.

As part of our conversations during the recent CAPRAD conference calls, we'd like to have our frequency packing considered when they do the CAPRAD packing. For that to be considered, I need each of your concurrences as soon as possible.

We would greatly appreciate it if we could have your re-concurrences no later than Friday, February 15th, 2008.

Thanks!

***Doug Frankhouser***

*Chair, Region 51*

*Manager, Data & Wireless Systems  
Houston Airport System  
Public Safety & Technology Division  
16930 John F Kennedy Blvd  
Houston, TX 77032  
Office: 281.233.1344*

1/30/2008

## 18.2. Region 40

May 18, 2007

Mr. Doug Frankhouser, Chair Region 51  
Manager, Data & Wireless Systems  
Houston Airport System  
Public Safety & Technology Division  
16930 John F. Kennedy Blvd.  
Houston, TX 77032

Dear Mr. Frankhouser,

Region 40 has received your proposed 700 MHz plan and submitted it to the committee for review and comment on May 4, 2007. The Region 40 committee subsequently formally approved Region 51's plan.

Let this letter serve as the official written concurrence of Region 40 to your proposed 700 MHz Regional Plan.

Sincerely,



J. Daniel Scrivner, PE  
Chairman Region 40

City of Dallas – CIS Department  
3131 Dawson St.  
Dallas, TX 75226  
214-670-7995  
j.scrivner@dallascityhall.com

Mr. Douglas Frankhouser  
Houston Airport System  
Public Safety and Technology  
16930 John F. Kennedy Blvd  
Houston, Tx. 77032

Dear Mr. Frankhouser: The purpose of this notification is to inform you that Region 40 has reviewed Region 51's 700 MHz Plan, and that we concur with the revised 700 MHz Plan. Fred Keithley, Director of Community Services and Public Safety Communications, and Region 40 Coordinator

**Fred Keithley**

Director, Department of Community Services and  
Public Safety Communications  
North Central Texas Council of Governments  
P.O. Box 5888  
Arlington, TX 76005-5888  
Phone: 817-695-9171  
FAX: 817-695-9164  
E-mail: [fkeithley@nctcog.org](mailto:fkeithley@nctcog.org)  
Website: [www.nctcog.org](http://www.nctcog.org)

## 18.3. Region 49



## Region 49

700 MHz Regional Planning Committee  
[www.region49.org](http://www.region49.org)

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August 14, 2007

Doug Frankhouser, Chair, Region 51 (Texas – East)  
Manager, Data & Wireless Systems  
Houston Airport System  
Public Safety & Technology Division  
16930 John F. Kennedy Blvd.  
Houston, TX 77032

Dear Mr. Frankhouser,

Region 49 (Central Texas) has received a copy of your proposed 700 MHz Regional Plan, submitted to this committee on May 1, 2007, and revised on June 18, 2007. Region 49 committee members have been asked to review your plan, and no objections have been received from any of our region's members.

Therefore, this letter serves as the official, written concurrence of Region 49 to your proposed 700 MHz Region 51 Plan.

Sincerely,

A handwritten signature in black ink, appearing to read "Ronald G. Mayworm".

Ronald G. Mayworm  
Chairman

Ron Mayworm, Chairman  
PO Box 1585  
Bryan TX 77805  
(979) 209-5475  
(979) 209-5489 [FAX]  
[ron@ktsignals.com](mailto:ron@ktsignals.com)

Charles Brotherton, Secretary  
209 W. 9<sup>th</sup> Street, Suite 270  
Austin TX 78767  
(512) 854-4895  
(512) 854-4786 [FAX]  
[Charles.brotherton@co.travis.tx.us](mailto:Charles.brotherton@co.travis.tx.us)

**Frankhouser, Douglas - HAS**

**From:** Mayworm, Ronald G [rmayworm@bryantx.gov]  
**Sent:** Tuesday, January 29, 2008 11:37 AM  
**To:** Frankhouser, Douglas - HAS  
**Cc:** Charles Brotherton  
**Subject:** Region 49 Concurrence

Doug,

Region 49 concurs with the Region 51 700 MHz plan and frequency sort as reflected in revision 2, dated January, 2008.

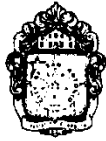
Thank you for the opportunity to review your plan, and good luck with obtaining FCC approval.

**Ron Mayworm**

Radio System Engineer  
City of Bryan  
P. O. Box 1000  
Bryan, TX 77805  
(979) 209-5475  
[rmayworm@bryantx.gov](mailto:rmayworm@bryantx.gov)

1/30/2008

## 18.4. Region 53



# CITY OF SAN ANTONIO

P.O. BOX 839966  
SAN ANTONIO, TEXAS 78283-3966

August 21, 2007

Doug Frankhouser, Chair Region 51  
Manager, Data & Wireless Systems  
Houston Airport Systems  
Public Safety & Technology Division  
16930 John F. Kennedy Blvd  
Houston, TX 77032

Mr. Frankhouser,

Region 53 is in receipt of your proposed 700 MHz Regional Plan, submitted to this Committee. The Regional Chair and Vice Chair discussed your plan and saw no apparent conflict with our bordering areas at present time. If such conflict were to occur we request that the regional chairs find resolution accordingly.

This letter serves as the official, written concurrence of Region 53 to your proposed 700 MHz Regional Plan.

Regards,

A handwritten signature in black ink, appearing to read "Richard Morales, Jr.".

Richard Morales, Jr., Chair Region 53 (700 MHz)  
Manager, Radio Systems  
City of San Antonio  
3440 E. Houston Street  
San Antonio, Texas 78219

"AN EQUAL OPPORTUNITY EMPLOYER"



**Frankhouser, Douglas - HAS**

---

**From:** Richard Morales (ITSD) [Richard.Morales@sanantonio.gov]  
**Sent:** Friday, February 01, 2008 2:15 PM  
**To:** Frankhouser, Douglas - HAS  
**Subject:** RE: Region 51 700 MHz Plan

I concur.....

Region 53

*Richard Morales, Jr.  
Manager, Radio Systems  
Communications Division (ITSD)  
City of San Antonio, Texas  
(210) 207-7022 or cell (210) 215-7022  
Richard.Morales@Sanantonio.Gov*

This message to include any attachments, contains confidential information intended for a specific individual and purpose, and is protected by law. If you are not the intended recipient, you should delete this message. Any disclosure, copying, or distribution of this message, or the taking of any action based on it, is strictly prohibited.

---

**From:** Frankhouser, Douglas - HAS [mailto:Douglas.Frankhouser@cityofhouston.net]  
**Sent:** Monday, January 28, 2008 2:49 PM  
**To:** Mayworm, Ronald G; j.scrivner@dallascityhall.com; Richard Morales (ITSD)  
**Subject:** RE: Region 51 700 MHz Plan

Gents:

I trust that you've received the hardcopy of the revised R51 700 plan. I have received re-concurrence from Region 18. If possible, I would appreciate hearing from you by Thursday (1/31) so that I can let Karla Jurrens at TX Sheriff's Association that we have re-concurrence from our surrounding regions for our packing plan.

Thanks!

*Doug Frankhouser*

*Chair, Region 51*

*Manager, Data & Wireless Systems  
Houston Airport System  
Public Safety & Technology Division  
16930 John F Kennedy Blvd  
Houston, TX 77032*

2/1/2008

## 19. DTV Protection and Incumbency

| County                           | Channel | Call Sign               | Location   | Latitude<br>NAD83 | Longitude<br>NAD83 |
|----------------------------------|---------|-------------------------|------------|-------------------|--------------------|
| <a href="#">Fort Bend County</a> | 67      | <a href="#">KFTH-TV</a> | Alvin      | 29°34'15"N        | 95°30'37"W         |
| <a href="#">Harris County</a>    | 67      | <a href="#">KFTH-TV</a> | Alvin      | 29°34'15"N        | 95°30'37"W         |
| <a href="#">Houston County</a>   | 63      | <a href="#">NEW</a>     | Crockett   | 31°14'39.6"       | 95°19'53.8"W       |
|                                  | 63      | <a href="#">NEW</a>     | Midland    | 32°5'51"N         | 102°17'23"W        |
|                                  | 65      | <a href="#">K65HK</a>   | Crockett   | 31°14'39.6"       | 95°19'53.8"W       |
|                                  | 69      | <a href="#">K69IN</a>   | Crockett   | 31°14'39.6"       | 95°19'53.8"W       |
|                                  | 69      | <a href="#">KVDO-LP</a> | Clear Lake | 29°35'36"N        | 95°3'13"W          |
| <a href="#">Jasper County</a>    | 62      | <a href="#">NEW</a>     | Cantil     | 35°20'36"N        | 118°1'54"W         |
|                                  | 62      | <a href="#">NEW</a>     | Hemphill   | 31°21'45"N        | 93°53'45"W         |
|                                  | 62      | <a href="#">NEW</a>     | Jasper     | 30°59'48"N        | 93°58'55"W         |
|                                  | 62      | <a href="#">NEW</a>     | Odessa     | 31°47'40"N        | 102°35'15"W        |
|                                  | 62      | <a href="#">NEW</a>     | Vidor      | 30°6'50"N         | 94°1'44"W          |
|                                  | 66      | <a href="#">KVHP-LP</a> | Jasper     | 30°58'32"N        | 93°59'25"W         |
| <a href="#">Jefferson County</a> | 69      | <a href="#">K69IY</a>   | Beaumont   | 30°0'6"N          | 94°5'37"W          |
| <a href="#">Orange County</a>    | 62      | <a href="#">NEW</a>     | Cantil     | 35°20'36"N        | 118°1'54"W         |
|                                  | 62      | <a href="#">NEW</a>     | Hemphill   | 31°21'45"N        | 93°53'45"W         |
|                                  | 62      | <a href="#">NEW</a>     | Jasper     | 30°59'48"N        | 93°58'55"W         |
|                                  | 62      | <a href="#">NEW</a>     | Odessa     | 31°47'40"N        | 102°35'15"W        |
|                                  | 62      | <a href="#">NEW</a>     | Vidor      | 30°6'50"N         | 94°1'44"W          |
|                                  | 64      | <a href="#">KUIL-LP</a> | Beaumont   | 30°0'6"N          | 94°5'37"W          |
|                                  | 66      | <a href="#">K66GD</a>   | Vidor      | 30°6'50"N         | 94°1'44"W          |
|                                  | 68      | <a href="#">NEW</a>     | Beaumont   | 30°6'51"N         | 94°1'20"W          |
|                                  | 69      | <a href="#">K69IY</a>   | Beaumont   | 30°0'5.7"N        | 94°5'36.9"W        |
|                                  | 69      | <a href="#">NEW</a>     | Midland    | 32°5'51"N         | 102°17'23"W        |
| <a href="#">Sabine County</a>    | 62      | <a href="#">NEW</a>     | Cantil     | 35°20'36"N        | 118°1'54"W         |
|                                  | 62      | <a href="#">NEW</a>     | Hemphill   | 31°21'45"N        | 93°53'45"W         |

|                               |    |                       |          |             |              |
|-------------------------------|----|-----------------------|----------|-------------|--------------|
|                               | 62 | <a href="#">NEW</a>   | Jasper   | 30°59'48"N  | 93°58'55"W   |
|                               | 62 | <a href="#">NEW</a>   | Odessa   | 31°47'40"N  | 102°35'15"W  |
|                               | 62 | <a href="#">NEW</a>   | Vidor    | 30°6'50"N   | 94°1'44"W    |
| <a href="#">Walker County</a> | 65 | <a href="#">K65HK</a> | Crockett | 30°48'42.3~ | 95°42'14.2"W |

## 19.1. FCC Rules 90.545 TV/DTV Interference Protection Criteria.

Public safety base, control, and mobile transmitters in the 764-776 MHz and 794-806 MHz frequency bands must be operated only in accordance with the rules in this section, to reduce the potential for interference to public reception of the signals of existing TV and DTV broadcast stations transmitting on TV Channels 62, 63, 64, 65, 67, 68 or 69. (a) D/U ratios. Licensees of public safety stations must choose site locations that are a sufficient distance from co-channel and adjacent channel TV and DTV stations, and/or must use reduced transmitting power or transmitting antenna height such that the following minimum desired signal to undesired signal ratios (D/U ratios) are met:

(1) The minimum D/U ratio for co-channel stations is 40 dB at the hypothetical Grade B contour (64 dB [micro] V/m) (88.5 kilometers or 55.0 miles) of the TV station or 17 dB at the equivalent Grade B contour (41 dB [micro] V/m) (88.5 kilometers or 55.0 miles) of the DTV station.

(2) The minimum D/U ratio for adjacent channel stations is 0 dB at the hypothetical Grade B contour (64 dB [micro] V/m) (88.5 kilometers or 55.0 miles) of the TV station or -23 dB at the equivalent Grade B contour (41 dB [micro] V/m) (88.5 kilometers or 55.0 miles) of the DTV station.

(b) Maximum ERP and HAAT. The maximum effective radiated power (ERP) and the antenna height above average terrain (HAAT) of the proposed land mobile base station, the associated control station, and the mobile transmitters shall be determined using the methods described in this section.

(1) Each base station is limited to a maximum ERP of 1000 watts.

(2) Each control station is limited to a maximum ERP of 200 watts and a maximum HAAT of 61 m. (200 ft).

(3) Each mobile station is limited to a maximum ERP of 30 watts and a maximum antenna height of 6.1 m. (20 ft.).

(4) Each portable (handheld) transmitter is limited to a maximum ERP of 3 watts.

(5) All transmitters are subject to the power reductions given in

Figure B of Sec. 90.309 of this chapter, for antenna heights higher than 152 meters (500 ft).

(c) Methods. The methods used to calculate TV contours and antenna heights above average terrain are given in Sec. Sec. 73.683 and 73.684 of this chapter. Tables to determine the necessary minimum distance from the public safety station to the TV/DTV station, assuming that the TV/DTV station has a hypothetical or equivalent Grade B contour of 88.5 kilometers (55.0 miles), are located in Sec. 90.309 and labeled as Tables B, D, and E. Values between those given in the tables may be determined by linear interpolation. The locations of existing and proposed TV/DTV stations during the transition period are given in Part 73 of this chapter and in the final proceedings of MM Docket No. 87-268.

The DTV allotments are:

| State        | City         | NTSC TV Channel | DTV Channel | ERP (kW) | HAAT (m) |
|--------------|--------------|-----------------|-------------|----------|----------|
| California   | Stockton     | 61              | 62          | 63.5     | 874      |
| California   | Los Angeles  | 11              | 65          | 688.7    | 896      |
| California   | Riverside    | 62              | 68          | 180.1    | 723      |
| California   | Concord      | 42              | 63          | 61.0     | 856      |
| Pennsylvania | Allentown    | 39              | 62          | 50.0     | 302      |
| Pennsylvania | Philadelphia | 6               | 64          | 1000.0   | 332      |
| Pennsylvania | Philadelphia | 10              | 67          | 791.8    | 354      |
| Puerto Rico  | Aguada       | 50              | 62          | 50.0     | 343      |
| Puerto Rico  | Mayaguez     | 16              | 63          | 50.0     | 347      |
| Puerto Rico  | Naranjito    | 64              | 65          | 50.0     | 142      |
| Puerto Rico  | Aguadilla    | 12              | 69          | 691.8    | 665      |

The transition period is scheduled to end on December 31, 2006. After that time, unless otherwise directed by the Commission, public safety stations will no longer be required to protect reception of co-channel or adjacent channel TV/DTV stations.

(1) Licensees of stations operating within the ERP and HAAT limits of paragraph (b) must select one of three methods to meet the TV/DTV protection requirements, subject to Commission approval:

(i) utilize the geographic separation specified in the tables referenced below;

(ii) Submit an engineering study justifying the proposed separations based on the parameters of the land mobile station and the parameters, including authorized and/or applied for facilities, of the TV/DTV station(s) it is trying to protect; or,

(iii) obtain written concurrence from the applicable TV/DTV station(s). If this method is chosen, a copy of the agreement must be submitted with the application.

(2) The following is the method for geographic separations.

(i) Base stations having an antenna height (HAAT) less than 152 m. (500 ft.) shall afford protection to co-channel and adjacent channel TV/DTV stations in accordance with the values specified in Table B (co-channel frequencies based on 40 dB protection)

and Table E (adjacent channel frequencies based on 0 dB protection) in Sec. 90.309 of this part. For base stations having an antenna height (HAAT) between 152-914 meters (500-3,000 ft.) the effective radiated power must be reduced below 1 kilowatt in accordance with the values shown in the power reduction graph in Figure B in Sec. 90.309 of this part. For heights of more than 152 m. (500 ft.) above average terrain, the distance to the radio path horizon will be calculated assuming smooth earth. If the distance so determined equals or exceeds the distance to the hypothetical or equivalent Grade B contour of a co-channel TV/DTV station (i.e., it exceeds the distance from the appropriate Table in Sec. 90.309 to the relevant TV/DTV station) an authorization will not be granted unless it can be shown in an engineering study (method 2) that actual terrain considerations are such as to provide the desired protection at the actual Grade B contour (64 dB[micro]V/m for TV and 41 dB[micro]V/m for DTV stations), or that the effective radiated power will be further reduced so that, assuming free space attenuation, the desired protection at the actual Grade B contour (64 dB[micro]V/m for TV and 41 dB[micro]V/m coverage contour for DTV stations) will be achieved. Directions for calculating powers, heights, and reduction curves are listed in Sec. 90.309 for land mobile stations. Directions for calculating coverage contours are listed in Sec. Sec. 73.683-685 for TV stations and in Sec. 73.625 for DTV stations.

(ii) Control and mobile stations (including portables) are limited in height and power and therefore shall afford protection to co-channel and adjacent channel TV/DTV stations in accordance with the values specified in Table D (co-channel frequencies based on 40 dB protection) in Sec. 90.309 of this part and a minimum distance of 8 kilometers (5 miles) from all adjacent channel TV/DTV station hypothetical or equivalent Grade B contours (adjacent channel frequencies based on 0 dB protection for TV stations and --23 dB for DTV stations). Since control and mobile stations may affect different TV/DTV stations than the associated base station, particular care must be taken by applicants to ensure that all the appropriate TV/DTV stations are considered (e.g., a base station may be operating on TV Channel 64 and the mobiles on TV Channel 69, in which case TV Channels 63, 64, 65, 68, and 69 must be protected). Since mobiles and portables are able to move and communicate with each other, licensees or coordinators must determine the areas where the mobiles can and cannot roam in order to protect the TV/DTV stations, and advise the mobile operators of these areas and their restrictions.

(iii) In order to protect certain TV/DTV stations and to ensure protection from these stations which may have extremely large contours due to unusual height situations, an additional distance factor must be used by all public safety base, control and mobile stations. For all co-channel and adjacent channel TV/DTV stations which have an HAAT between 350 and 600 meters, public safety stations must add the following DISTANCE FACTOR to the value obtained from the referenced Tables in Sec. 90.309 and to the distance for control and mobile stations on adjacent TV/DTV channels (96.5 km).

DISTANCE FACTOR = (TV/DTV HAAT-350) / 14 in kilometers, where HAAT is the TV or DTV station antenna height above average terrain obtained from its authorized or proposed facilities, whichever is greater.

(iv) For all co-channel and adjacent channel TV/DTV stations which have an antenna height above average terrain greater than 600 meters, public safety stations must add 18 kilometers as the DISTANCE FACTOR to the value obtained from the referenced Tables in Sec. 90.309 and to the distance for control and mobile stations on adjacent TV/DTV channels (96.5 km).

Note to Sec. 90.545: The 88.5 km (55.0 mi) Grade B service contour (64 dB[micro]V/m) is based on a hypothetical TV station operating at an effective radiated power of one megawatt, a transmitting antenna height above average terrain of 610 meters (2000 feet) and the Commission's R-6602 F(50,50) curves. See Sec. 73.699 of this chapter. Maximum facilities for TV stations operating in the UHF band are 5 megawatts effective radiated power at an antenna HAAT of 610 meters (2,000 feet).

See Sec. 73.614 of this chapter. The equivalent contour for DTV stations is based on a 41 dB [micro] V/m signal strength and the distance to the F(50,90) curve. See Sec. 73.625 of this chapter.



# **S i m p l e P a r l i a m e n t a r y P r o c e d u r e**

## ***Guidelines for Better Business Meetings***

**Martha Nall, *Leadership Development Specialist***

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Have you ever been to an out-of-control meeting? A meeting where two or three items were discussed at once? A meeting where you never had a chance to express your views? A meeting where a vote was never taken and, in the end, the president made the final decision? Chances are you and several other members left the meeting feeling as if nothing was accomplished.

Meetings don't have to be that way. An orderly, well conducted meeting, on a community, county, area, or state basis, should be the goal of every officer and member. In order for a presiding officer to conduct a good business meeting, the entire membership should be informed of parliamentary procedure. Parliamentary procedure helps the officers and members follow a logical order in conducting a meeting.

Each member should consider the five principles of parliamentary law:

- Courtesy and justice to all.
- Consider only one thing at a time.
- The majority rules.
- The minority must be heard.
- The purpose is to facilitate action.

## **20.1. Parliamentary Courtesies**

Courtesies are expected of all members.

1. Stand when addressing the president, as in making a motion, discussing a question before the house, or making a committee report.
2. Address the president as "Madam Chairman" or "Madam President."
3. Sit down promptly when finished talking.
4. Do not speak during the business meeting except when addressing the chair and then only after having been properly recognized.
5. Never talk or whisper to another member during the meeting.
6. Never stand to get recognition from the president when another member has the floor.
7. Confine discussion to the question before the group.
8. Refer to an officer by her official title, to members by "the member who spoke last" or otherwise designate members, but not by their names.
9. Willingly accept the decision of the majority.

10. Be punctual for club meetings.

## 20.2. Reminders for the Presiding Officer

1. Correct procedure should always be your goal.
2. If dealing with motions or amendments, always state the exact wording. Ask the secretary to read it if you forget how it was phrased.
3. Discussion is not in order until the motion has been stated by the chair.
4. The chair does not enter discussion while presiding. As a member of the assembly, the chair is entitled to his or her vote.
5. Always indicate clearly how a vote is to be taken. Never call for “the usual sign.”
6. Always call for the negative vote, saying, “Those opposed say ‘no.’”
7. Adoption of an amendment does not mean adoption of the main motion. Remember to state the main motion as amended.
8. It is better to say: “The motion is out of order” than “The member is out of order.”

## 20.3. Order of Business

An order of business or agenda is simply a plan for conducting the business of the group in a logical, organized manner. An agenda helps a meeting go smoother and faster, and lessens the possibility of items of business being overlooked or forgotten. Every meeting should have an agenda. A typical agenda or order of business is discussed below.

## 20.4. Agenda

1. *Call to Order.* The president calls the meeting to order after he has determined a quorum is present. The president says, “The meeting will come to order.”
2. *Opening Ceremonies.* Religious, patriotic, or other opening ceremonies prescribed by the organization, including a roll call if customary, are held at this time. Religious ceremonies, such as an invocation, precede other activities. The roll call should be the last part of the opening ceremonies.

*Note:* Program may be inserted here (See #9).

3. *Reading of the Minutes.* The chair asks the secretary to read the minutes. Following the reading the chair asks, “Are there any corrections to the minutes?”

The chair responds, “The minutes are approved as read,” or “as corrected.”

4. *Reports of Officers and Standing Committees.* The chair recognizes officers who have reports. The secretary is asked to read correspondence. The treasurer is asked to give the treasurer’s report. Any other elected officers who may have reports are called upon. If the chair is uncertain about a report, the chair may ask, “Does the historian have a report?”

Standing committees are called on for reports in the order they are listed in the by-laws. Motions arising out of these reports should be handled immediately.

5. *Reports of Special Committees.* Any special committees who are to report should be called on in the order in which they were appointed.

6. *Unfinished Business.* When the minutes show that the decision on some item of business was postponed to the present meeting or that a question from a previous meeting is pending, it should be listed on the agenda under unfinished business. The chair should not ask, “Is there any unfinished business?” but simply proceed through the items listed. An idea discussed informally at the previous meeting and agreed to be brought up at the next meeting should be included under new business.

7. *New Business.* After unfinished business is taken care of the chair asks, “Is there any new business?” At this point members may introduce new items of business. As long as members are claiming the floor to introduce business, the chair may not deprive them of their rights by hurrying through the proceedings.

8. *Announcements.* When all new business has been handled and no member wishes to bring further items to the group for consideration, the chair proceeds to announcements. However, urgent announcements may be made by the chair at any point during the meeting.

9. *Program.* The program is usually presented before the meeting is adjourned since the group may want to take action as a result of the information provided. It is acceptable to have the program at the beginning of the meeting. To move the program to an unscheduled portion of the agenda, the chair simply says, “If there are no objections, we will have our program at this time.”

## **20.5.How to Present and Dispose of a Motion**

A motion is the method by which business is brought before an assembly. Motions may grow out of reports or other communication. Often a committee report, letter, or memorandum will introduce information the assembly wishes to take action on. The procedure used in handling a motion is described by the following series of steps.

### **Step 1: Obtaining the Floor**

Before a motion can be made, the member of the assembly first must obtain the floor; that is, the member must be recognized by the chair as having the exclusive right to

be heard. The chair must recognize any member who seeks to obtain the floor and is entitled to it. To be recognized, the member rises when no one else has the floor and addresses the presiding officer by the proper title, such as Mr. President, Madam President, or Madam Chairman. The chair normally recognizes the member by announcing the person's name or title or by saying, "The chair recognizes the member to my right." In a small group or where it is obvious only one person is seeking the floor, the chair may recognize that person by nodding to him. Once the member is recognized and has the floor, no one else may interrupt.

## **Step 2: Making a Motion**

A member makes a motion by simply stating, "I move that ...." As soon as the member has stated the motion he is seated. The member will have the right to speak first in debate, if he wishes, after the chair has stated the question. If the motion has not been heard it can be repeated by the maker, the chair, or the secretary. (Motion classifications are discussed later.)

## **Step 3: Seconding a Motion**

After a motion has been made another member seconds the motion by saying "I second the motion," or "Second." The member seconding a motion does not have to rise or obtain the floor. A second to a motion indicates that another member wishes the question to be considered by the assembly; it does not necessarily mean that he is in favor of the motion. If no one seconds a motion immediately upon its being made, the chair normally asks, "Is there a second to the motion?"

Once the motion is seconded the chair understands that there are at least two members of the assembly who wish to consider this question and he states the question, thus placing it before the assembly. The motion now belongs to the group and the maker may no longer withdraw the motion without the assembly's consent. If there is no second, the motion is not before the assembly and the chair moves on to the next item of business. Motions made by direction of a board or committee do not need a second since they are made by a majority vote within the committee and are desired by more than one member of the group.

## **Step 4: Debating the Motion**

Immediately after the chair states the motion he should ask, "Is there any discussion?" or "Are you ready for the question?" The person making the motion has the right to speak first and should be allowed to do so. The maker of the motion is not required to speak. However, if he chooses to do so he must speak in favor of the motion. During the discussion each member has the right to speak twice on the same question. No members may speak the second time as long as another member who has not spoken on the question desires the floor. Speakers must limit their remarks to the pending question. They should address the chair, speak in a courteous tone, avoid personalities, and under no circumstances attack or question the motives of another person. The

question, not the person, is the subject of debate. The presiding officer cannot close debate as long as any member wishes to discuss the question.

### **Step 5: Putting the Question (calling for a vote)**

When it appears that debate has ended, the presiding officer asks, “Are you ready for the question?” or “Is there further discussion?” If no one rises to obtain the floor the chair again states the motion and calls for the vote. “As many as are in favor, say ‘aye’, those opposed, ‘no.’” The vote is usually taken by voice vote, but may be a standing vote or by show of hands. The chair always asks for the negative vote, even when the affirmative appears unanimous. The maker of the motion is not allowed to speak against the motion but may vote against it.

### **Step 6: Announcing the Results**

The chair announces the result of the vote immediately, including:

- 1) Which side has won: Example: “The ayes have it.”
- 2) The result of the voting: Example: “The motion carries.”
- 3) The action that must result: Example: “The club will ....”



## 20.6. Classification of Motions

Motions are classified into four types depending upon their purpose.

1. Main motions are used to introduce a main item or question of business to the group. Only one main motion may be before the group at a time. It must be disposed of before another item may be considered. There are other procedural motions which may be considered, but only one main motion may be considered at a time.

2. Subsidiary motions will modify, defer, remove, or dispose of the main motion. Subsidiary motions take precedence over main motions; they must be handled first. They include motions to:

- lay an item of business on the table,
- close debate,
- limit or extend debate,
- postpone to a fixed time,
- refer to committee, and
- amend or postpone indefinitely.

3. Privilege motions relate to order and the rights and welfare of the members. They rank higher than subsidiary motions or main motions. They include motions to:

- call for the orders of the day,
- adjourn,
- recess,
- raise a question of privilege, and
- set the time to adjourn.

4. Incidental motions relate to procedures. Incidental motions have no rank and are considered before the motions from which they stem. Incidental motions include those that:

- appeal a ruling of the chair,
- suspend the rules,
- rise to a point of order,
- withdraw motions,
- reconsider,
- rescind, and
- take from the table.

## 20.7.Minutes

The minutes of the organization become the permanent record of the group's actions. The minutes are a record of facts, not opinion. They are a record of what happened and not the thoughts or feelings of members or officers. The secretary is responsible for recording and keeping the minutes of all meetings. They should be written clearly, in a manner that leaves no room to question actions taken by the assembly. An absent member should be able to read the minutes and have a clear understanding of the business transacted at the meeting. All names should be clearly recorded, such as Nancy Jones not Ms. Jones.

The following guidelines for writing minutes suggest a format which will aid the secretary in preparing the minutes of each meeting.

### Guidelines for Writing Minutes

1. Include in the first paragraph:

- the kind of meeting (regular, special, annual, etc.),
- the name of the group,
- the date, time, and place of the meeting,
- whether or not the president and secretary were present and, in their absence, the name of their substitute(s), and
- the disposition of the minutes of the last meeting.

#### Example

The regular meeting of the Summerville Extension Homemakers' club was held on September 3, 1985, at 7:00 p.m. at the home of Jane Smith, 444 Main Street, Summerville, KY. The president being the chair and the secretary being present, Mary Jones presented the devotion for the evening. Following the roll call of members, the minutes of the last meeting were approved as read.

2. The body should include a separate paragraph for each subject matter and should show:

A. All main motions or motions to bring a main question before the assembly, the exception being motions which were withdrawn. When recording a motion, include:

- the exact wording of the motion as adopted or otherwise disposed of, the disposition of the motion, including temporary disposition, and any primary or secondary amendments and all adhering secondary amendments that were pending, and
- usually, the name of the person making the motion in all important motions

B. All points of order and appeals, whether sustained or lost, and reasons given by the chair for the ruling.

**Example**

The treasurer reported a disbursement of \$15.75 to the Summerville Florist for the annual meeting centerpiece, leaving a balance of \$168.15 as of September 2, 1985.

The scholarship committee report was received and placed on file.

The special committee that was appointed to investigate the possibility of the club contributing to the "Community Pantry" reported. Joan Thomason, the chairman, moved that each club member bring canned or packaged food items to the October, November, and December meetings to be contributed to the community project. After debate, the motion was adopted.

Lori Brown moved that the club pay the \$5.00 registration fee and the luncheon costs for both the club president and vice president who will be attending the State Homemakers' Leadership Workshop in Lexington, KY, November 10-12. The motion was seconded and carried.

The president announced the next meeting would be October 5 at Liz Trotter's home, 615 Appleton Way at 7:00 p.m.

The president introduced the program, "Weight Reduction with a Balanced Diet" presented by June Chaney and Barbara Dillon.

**3. Closing**

- A. The last paragraph of the minutes should contain the hour of adjournment.
- B. The minutes should be signed by the secretary or the person who took the minutes.

The meeting adjourned at 9:30 p.m.

**Example**

[Redacted Signature], Secretary

## **20.8.Treasurer's Report**

At each meeting of the organization, the chair may ask for a report from the treasurer. This report may be a statement of the balance on hand or the balance minus outstanding obligations. This report requires no action by the group.

However, the treasurer is required to make a full financial statement once a year and in some cases more often. An annual report always should be audited. If an annual report has not been audited prior to the meeting, the chair will say, "The financial report will be referred to the auditing committee."

When the amount of money is quite large, it is advisable to use independent accountants. This can be expensive and should be budgeted. In many organizations the financial statements are audited by two or more of its members. This committee is usually appointed in advance of the annual meeting and the financial statement is prepared early to assist the committee in completing their work.

When the auditor's report consists of an endorsement of the treasurer's financial report by stating that it has been found to be correct, the treasurer can simply read this statement at the end of the report. If needed, the chairman of the auditing committee can present a detailed report at this time. The chair then asks the members if they want to adopt the auditor's report. The adoption of this report simply relieves the treasurer of responsibility for the period covered in the report, except in case of fraud.

If the auditor finds the treasurer's books incorrect, the assembly may approve the auditor's report and consider the incorrect handling of funds as an item under new business. Or, the assembly may choose not to approve the auditor's report and may ask for a new auditor.

The form and content of the financial report will depend on the size of the organization, frequency of reporting, the nature of the activities, etc. The financial report is made to provide information to the members. A report of details and separate payments that make it difficult to understand should be avoided.

## **20.9.Elections of Officers**

The bylaws of the group usually specify the procedure for the election of officers of the organization. However, if this is not the case for your group, the following procedures may be used.

### **Nominations**

Nominations can be secured in several ways. The two most common are nominations from the floor and nominations by committee.

## **Procedure for floor nominations**

For nominations from the floor, the chair declares the floor open for nominations and any member may nominate another member. The chair does not have to recognize the member for a nomination to be made. The member simply stands and says, "Madam Chairman, I nominate Susie Martin." No second is required for a nomination. Unless an objection is made, a member may nominate more than one person for an office, as long as there are not other members wishing to nominate someone. The same person can be nominated for more than one office. If elected to more than one office, the member may choose the office he prefers. If the member is absent the group will decide by vote and then elect a person to fill the other office.

**Chair/President:** *"Nominations are now in order for the office of president."*

**Member:** *"I nominate Ms. A."*

**Chair/President:** *"Ms. A is nominated. Are there any further nominations for the office of president?"*

The chair proceeds in this manner through all offices in the order the offices are listed in the by-laws, until nominations have been made for each office

## **Procedure for committee nominations**

If a nominating committee is used, it should be elected by the members of the organization or the executive board. The president should not appoint this committee, nor be an ex-officio member of the committee. In most organizations the bylaws will provide guidelines for an election using a nominating committee. Any member of a nominating committee also may become a nominee for an office. Normally members of the committee will contact each person they wish to nominate to ensure that the candidate will accept the position if elected.

The reporting procedure to be used by the nominating committee is usually specified in the bylaws. Often it is prior to the meeting where the election is to take place. It always should be formally presented at a regular meeting even if the membership has had prior notification.

**Chair/President:** *"Will the chairman present the report of the nominating committee."*

**Chairman of nominating committee:** *"Madam President, the nominating committee submits the following nominations: For president, Mrs. A; for vice president, Mrs. B; and for secretary-treasurer, Mrs. C." (continue for all vacancies)*

**Chair/President:** *"Mrs. A has been nominated for president. Are there any further nominations for president?"*

(If there is a nomination from the floor the chair repeats the name of the nominee.

*“Mrs. D has been nominated for president. Are there any further nominations?”*

**Chair/President:** *“Mrs. B has been nominated for vice president.” Are there any further nominations for vice president?”*

(The chair proceeds in this manner through all offices.)

*“Are there any further nominations for any of the offices? [pause] Hearing none, the chair declares the nominations closed.”*

## Voting

As with nominations, most organizations will have a prescribed method, or an established custom, in the bylaws for voting. Election by ballot generally is used by organizations; however, the viva voce also is appropriate when the election is largely uncontested and when the bylaws do not require a ballot vote.

### Election by Ballot

If no voting takes place before all nominations are closed, one ballot may be used. When nominations are known prior to the meeting, ballots may be prepared in advance. Space should be left on the ballot for writing in additional nominations for each office.

The chair appoints tellers to distribute, collect, and count the ballots. The number of tellers varies depending on the size of the voting assembly. It is the tellers' responsibility to see that no member casts more than one ballot. This voting procedure also should be fixed by rule or custom. When everyone seems to have voted, the chair asks, “Have all voted who wish to do so?” If there is no response, the chair says, “If no one else wishes to vote, [pause], the chair declares the polls closed.” The tellers collect the ballots and begin counting the votes, usually in another room.

In recording the ballots, tellers should be instructed to:

- not include blank ballots or blanks on a ballot in determining the total number of votes cast,
- accept ballots which may contain small technical errors such as a misspelled name,
- declare illegal two or more ballots folded together,
- declare illegal sections of ballots where the member votes for more than one candidate for an office and no clear choice can be determined, and
- declare illegal unintelligible ballots. If the number of unintelligible ballots will affect the outcome of the election, the chair of the tellers should report this to the chair who will ask the assembly to decide how these ballots should be recorded.



All illegal ballots should be counted in determining the total number of votes cast for figuring the majority. However, no candidate benefits with a vote from an illegal ballot. (The same applies to motions.)

Following the counting, the chairman of the tellers prepares a report which contains:

- the number of votes cast,
- the number required for a majority,
- the number received by each nominee, and
- the number of illegal votes.

The chairman of the tellers addresses the chair, reads the report, and hands it to the chair. The chair reviews the written report and declares the winners. If one or more of the candidates does not receive a majority of votes, the chair/president announces, "No election," and directs that new ballots be distributed for the office where no candidate was elected. The procedure is repeated until one candidate is elected. No name is removed from the ballot unless so directed in the bylaws.

### **Election by Viva Voce**

This method is generally used where the bylaws do not require voting by ballot and a candidate is unopposed. However, it also may be used when there is more than one candidate for an office by using the following procedure:

**Chair/President:** *"Those in favor of Mrs. A for president, say 'aye.' Those opposed 'no.'"*

If a majority vote for Mrs. A... *"The ayes have it and Mrs. A is elected president."*

If the no's have a majority...

*"The no's have it and Mrs. A is not elected president. Those in favor of Mrs. B [the next nominee] say 'aye.' Those opposed 'no.'"*

When a candidate receives a majority she is declared the winner and no other candidates are voted on. The chair moves on to the next office for which an election is being held.

When using this procedure, the members wishing to vote for a later candidate must vote against those preceding him or her. This is considered to give an unfair advantage to those voted on earlier in the procedure.

## **20.10. Conclusions**

Every member of the organization should know the basic rules of parliamentary procedure. The presiding officer will find it helpful to learn more rules than are used. Practice will ensure smooth meetings and fairness to all. The use of parliamentary procedure in all meetings will help the group transact business efficiently, protect the

group from leaders who dictate policies, and protect the rights of each individual in the group.

Remember, if you are overly strict with rules and procedures, members may be afraid to speak up. Parliamentary rules, like all other rules, should be applied with common sense

## 20.11. Parliamentary Terms to Know

Before parliamentary procedure can be effective, members must be familiar with frequently used terms.

**Adjourn** - to end a meeting

**Amend** - changing a main motion by striking out, inserting, adding to, or substituting

**Chair** - the presiding officer; “addressing the chair” means speaking to the president or chairman

**Debate** - the parliamentary name given to the discussion of a motion

**Division of the House** - voting by standing and counting

**Ex Officio** - by virtue of the office; a member of the committee by virtue of being president may vote unless specified otherwise in bylaws

**Floor** - the privilege of speaking before the assembly

**Majority** - one more than half of the number voting; if 10 ballots are counted, six would be a majority.

**Minutes** - official record of business transacted in a meeting

**Motion** - a formal proposal for action by the group

**Question** - the item of business before the assembly for vote

**Quorum** - the number or proportion of members required to be present for business to be transacted.

**Resolution** - a form of main motion which may or may not have a preamble describing the reasons for the proposal

**Second** - motions are seconded by a member of the assembly; an action which indicates interest of at least a second member in bringing the question before the group

**Table** - a motion “to table” allows the assembly to put aside the pending question temporarily when something more urgent has arisen

**Viva Voce** - (v§-va-vÇ-c') by word of mouth, spoken, oral

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